

Curriculum Vitae

Dr. Andrey Chernykh (Andrei Tchernykh)

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Personal

Date of birth:	September 7, 1953
Place of birth:	Odessa, Ukraine (Soviet Union)
Nationality	Mexican
Sex:	Male
Marital status:	Married
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Resume

Andrei Tchernykh is a head of the Parallel Computing Laboratory in the Computer Science Department, CICESE Research Center (Centro de Investigación Científica y de Educación Superior de Ensenada), Ensenada, Baja California, Mexico and he teach in CICESE's postgraduate programs in computer science, a position he has held since 1995. He graduated from the Sevastopol Technical University in 1975. From 1975 to 1990 he worked at the Institute of Precision Mechanics and Computer Engineering (IPMCE) of the Russian Academy of Sciences, and took part in the parallel supercomputer ELBRUS Project development and implementation.

He obtained his PhD in 1986 from the Institute of Precision Mechanics and Computer Engineering of the Russian Academy of Sciences. He gained industrial experience as supercomputer design team leader in Advance Technical Products Corp, and Supercomputer Design Department of Electro-Mechanical Enterprise, Russian leaders in HPC design and development.

His scientific expertise is awarded by Level 2 in National System of Researchers (SNI), Mexico. He was invited to serve as a Visiting Researcher at prestigious universities like Barcelona Supercomputing Center (Spain), University of Göttingen (Germany), Centre de recherche INRIA Lille - Nord Europe (France), Université Grenoble Alpes (France), Luxembourg University (Luxembourg), Dortmund University (Germany), Moscow Institute of Physics and Technology (Russia), Technische Universität Clausthal (Germany), Institut National Polytechnique de Grenoble (France), University of California-Irvine (USA), University of Southern California (USA), Université Joseph Fourier (France), UdelaR (Uruguay), etc.

Prof. Tchernykh has been served as PI for a number of research projects and grants in different countries (CONACYT, NSF, ANII, Ochoa, INRIA, FNR, UC MEXUS, DAAD, LAFMI, UJF, INPG, REDII, FUMEC, etc.).

He has given more than 50 keynote speeches and invited lectures, has served as a program committee member of more than 80 professional peer-reviewed conferences, and organized 11 of them. He is active in grid and cloud research with a focus on resource optimization, both, theoretical and experimental, scheduling, load balancing, multi-objective optimization, heuristics and meta-heuristics, uncertainty, adaptive resource allocation, and scalable energy-aware algorithms.

He is reviewer for biggest Mexican research funding institution CONACYT and prestigious journals such as: Future Generation Computer Systems (Elsevier, IF 2.365), Cluster Computing (Springer, IF 0.519), International Journal of Computer Mathematics (Taylor & Francis, IF 0.5), Journal of Combinatorial Optimization (Springer, IF 0.867), Journal of Grid Computing (Springer, IF 1.556), IEEE Transactions on Parallel and Distributed Systems

(IEEE Computer Society, IF 1.733), Discrete Applied Mathematics (Elsevier, IF 0.795), Parallel Computing (Elsevier, IF 1.311), Journal of Scheduling (Elsevier, England, IF 1.051), etc.

He is editorial board member of International Journal of Metaheuristics (IJMHeur) - Inderscience Publishers. Genève, Switzerland, and Proceedings of the Institute for System Programming of the RAS (Proceedings of ISP RAS), Moscow, Russia

His research resulted in more than 100 publications in journals and conference proceedings. Google Scholar h-factor = 13.

(<http://usuario.cicese.mx/~chernykh/>).

Research area:

scheduling, load balancing, adaptive resource allocation, scalable energy-aware algorithms, green grid and cloud computing, eco-friendly P2P scheduling, multi-objective optimization, scheduling in real time systems, computational intelligence, heuristics and meta-heuristic, incomplete information processing.

Education

- M.S. (Computer Science, Honor), Sevastopol Instrument Making Institute (Sevastopol Technical University), 1975
- Ph.D. (Computer Science), Institute of Precise Mechanics and Computer Technology of the Russian Academy of Sciences, Moscow, 1986.

Scholarships and Fellowships

- ANII - Agencia Nacional de Investigación e Innovación, Uruguay, 2015. Collaboration with Instituto de Computación, Facultad de Ingeniería, UdelaR - Universidad de la República (Dr. Sergio Nesmachnow)
- FNR (Fonds National de la Recherche, Luxembourg) “Power-aware parallel job management and optimization strategies in P-clouds ”, collaboration with Université du Luxembourg, Luxembourg (Prof. Pascal Bouvry) 2014, 2015
- DAAD - Deutscher Akademischer Austauschdienst, “Resource management in cloud computing” collaboration with Georg-August-Universität Göttingen · Institute of Computer Science , Göttingen, Germany (Prof. Ramin Yahyapour), 2015
- BSC - Barcelona Supercomputing Center “Uncertainty in cloud computing” (Prof. Vassil Alexandrov), 2015
- INRIA Lille - Nord Europe, Centre de recherché (Prof. El-ghazali Talbi), 2015
- UG - Université Grenoble Alpes, INRIA, Grenoble, France (Prof. Denis Trystram). 2014
- FNR (Fonds National de la Recherche, Luxembourg) award for 2 months research stay in Luxembourg University, Luxembourg, 2012
- DAAD (German Academic Exchange Service) award for research stay in Dortmund University, Germany, 2009.
- DAAD (German Academic Exchange Service) award for research stay in Dortmund University, Germany, 2007.
- UJF award for research stay in Université Joseph Fourier, IMAG, Grenoble, France, 2001;
- INPG award for research stay in Institut National Polytechnique de Grenoble, Grenoble, France, 2000;

Previous Positions

Academic Appointments

1995-present.	Professor-Investigator (Full Professor) CICESE Research Center, Computer Science Department, Ensenada, BC, Mexico
2015	Visiting Researcher. Moscow Institute of Physics and Technology, Moscow/Dolgoprudny, Russia (mid November-December, 2015)
2015	Visiting Researcher. Universidad de la República, Instituto de Computación, Montevideo, Uruguay (mid October mid November, 2015)
2015	Visiting Researcher. Université du Luxembourg, Computer Science and Communications Research Unit (August-October, 2015)
2015	Visiting Professor. University of Göttingen, GWDG, Göttingen, Germany (February, June-July, 2015)

- 2015 Visiting Professor. Barcelona Supercomputing Center, Computer Science Department, Extreme Computing group, Grid Computing and Clusters group (March-May, 2015).
- 2015 Visiting Researcher. Centre de recherche INRIA Lille - Nord Europe. DOLPHIN team (January, May, 2015)
- 2014 Visiting Professor at Université Grenoble Alpes, INRIA Research Centre, Grenoble, France (November 2014)
- 2014 Visiting Researcher. Université du Luxembourg, Computer Science and Communications Research Unit (October, December, 2014)
- 2014 Visiting Professor at Laboratoire d'Informatique de Grenoble LG, MOAIS, Grenoble, France (April 2014)
- 2012 Visiting Professor at Luxembourg University, Computer Science and Communications Research Unit (October -November, 2012)
- 2009 Visiting professor. University of Dortmund, IT and Media Center, Dortmund, Germany (July-Sept.2009)
- 2007 Visiting professor. University of Dortmund, IRF-IT, Dortmund, Germany (January-June, 2007), in the framework of sabbatical leave from CICESE
- 2003 Full Professor, Technische Universität Clausthal, Institut fuer Informatik, Germany (May-December, 2003), in the framework of sabbatical leave from CICESE
- 2003 Visiting professor. INPG-Institut National Polytechnique de Grenoble, France (December, 2002-May,2003), in the framework of sabbatical leave from CICESE
- 2002 Visiting professor. University of California–Irvine, Department of Information and Computer Science, Irvine, CA, USA (July-August, 2002)
- 2001 Visiting professor. University of Southern California, School of Engineering, Electrical Engineering Systems, Los Angeles, USA (July-August,2001)
- 2001 Visiting professor. Université Joseph Fourier, Institut D'Informatique et de Mathématiques Appliquées de Grenoble IMAG, Laboratoire Informatique et Distribution, Grenoble, France (February-March,, 2001)
- 2000 Visiting professor. INPG-Institut National Polytechnique de Grenoble, France (February-April, 2000)
- 1994-1995 Senior researcher. IHPCS - Institute for High Performance Computer Systems of the Russian Academy of Sciences, Moscow,
- 1990-1994 Senior researcher SCC - Scientific Computer Center of the Russian Academy of Sciences, Moscow
- 1993-1995 Associate professor. Moscow State Avian Technologic University
- 1986-1990 Leading designer, senior researcher. IPMCT - Institute of Precise Mechanics and Computer Technology of the Russian Academy of Sciences, Moscow
- 1979-1982 Engineer-programmer. IPMCT - Institute of Precise Mechanics and Computer Technology of the Russian Academy of Sciences, Moscow

Industrial/Engineer Positions

- 1982-1986 Group leader. Advance Technical Products Corp., Odessa, Ukraine (13.07.1982 - 14.10.1986)
- 1979-1980 Group leader Electro-Mechanical Factory, Supercomputer Design Department, Zagorsk (07.1979 - 03.1980)
- 1976-1977 Group leader Institute of Long Distance Radiolocation, Computer Department, Moscow (07.1976 -- 02.1977)
- 1975-1979 Engineer-programmer. Advance Technical Products Corp., Odessa, Ukraine (11.08.1975 -- 27.11.1979)

Distinctions, Honors, Awards

- President of the 5th International Supercomputing Conference in Mexico, Ensenada, Baja California, México, March 18-21, 2014 (with Raul Rivera)
- FNR (Fonds National de la Recherche, Luxembourg) grant for 2 months research stay in Université du Luxembourg, Luxembourg, 2012
- SNI 2 – Second Level National Researcher award, National System of Researchers, Mexico, 2013-current

- Honor President of the 6th International Congress of Computer Science, CICC'05, Sept. 28-30, 2005. Colima, México
- CONACYT award for one year research stay in IMAG (France) and TUC (Germany) 2003.
- SNI 1 - First level National Researcher award, National System of Researchers, Mexico, 1997 -2012
- Award for the Best Research Works Competition of the Institute of Precise Mechanics and Computer Technology of the Russian Academy of Sciences, IPMCT, Moscow, 1988
- Prize-winner of the Young Scientists competition, IPMCT, Moscow, 1981
- M.S. diploma with honor, granted by President of the State Commission, Russia, 1975

Service

- Member of the Internal Council of the Applied Physics Division (representation of the Computer Science Department, CICESE (2000-2002)
- Member of doctoral committees at the CICESE Research Center
- Member of Master of Science committees at the CICESE Research Center

Guest Editor

- special issue on Parallel Computing for the Revista Iberoamericana de Investigación “Computación y Sistemas” v. IV, No. 4, 2000 Impact factor: 0.0862 (2011, JCR Master Journal List)
- special issue on Supercomputing in Mexico: Applications and Technologies. Iberoamerican Journal of Research "Computing and Systems" (Revista Iberoamericana de Investigación "Computación y Sistemas") 2013. Impact factor: 0.0862 (2011, JCR Master Journal List)

President

- 5th International Supercomputing Conference in Mexico, Ensenada, Baja California, México, March 18-21, 2014 (along with Raul Rivera)
- 3rd International Conference on Parallel Computing Systems - PCS'04, Colima, Mexico (September 19-22, 2004) (along with Klaus Ecker, Denis Trystram, Jacek Blazewicz)
- 2nd International Conference on Parallel Computing Systems 99 - PCS'99, (August 16-20, 1999) Ensenada, Baja California, Mexico (along with Klaus Ecker, Isaac Scherson)
- “Parallel Computing Workshop”, Universidad Autónoma de Baja California. Escuela de Ingeniería, 18 de Mayo, 1999, Ensenada, Baja California, México (along with Isaac Scherson)
- UCI-CICESE Workshop "Research Perspectives in Computational Science" April 24, 1998 Ensenada, Baja California, Mexico (along with Isaac Scherson)
- International Workshop on Parallel Computation and Scheduling 97 - PCS'97, CICESE, Ensenada, BC, Mexico (August 18-22, 1997) (along with Klaus Ecker)

Co-organizer

- ISUM 2016, 2015, 2014, 2013, 2012, 2011, 2010 – International Supercomputing Conference in Mexico
- ENU-HPC—Primer Encuentro Nacional de Usuarios de Cómputo de Alto Desempeño. Campus Celaya-Salvatierra, Universidad de Guanajuato, Celaya Guanajuato. 14, 15, 16 de Mayo, 2012

Grants and Sponsored Programs

- ANII - Agencia Nacional de Investigación e Innovación, Uruguay, 2015. Collaboration with Instituto de Computación, Facultad de Ingeniería, UdelaR - Universidad de la República (Dr. Sergio Nesmachnow), 2015
- FNR (Fonds National de la Recherche, Luxembourg) “Power-aware parallel job management and optimization strategies in P-clouds”, collaboration with Université du Luxembourg, Luxembourg (Prof. Pascal Bouvry), 2015
- DAAD - Deutscher Akademischer Austauschdienst, “Resource management in cloud computing” collaboration with Georg-August-Universität Göttingen · Institute of Computer Science , Göttingen, Germany (Prof. Ramin Yahyapour), 2015
- BSC - Barcelona Supercomputing Center “Uncertainty in cloud computing” (Prof. Vassil Alexandrov), 2015
- INRIA Lille - Nord Europe, Centre de recherché (Prof. El-ghazali Talbi), 2015
- UG - Université Grenoble Alpes, INRIA, Grenoble, France (Prof. Denis Trystram), 2014
- CICESE “Scheduling in Cloud Federation” (#634122), 2014-2016
- PI: CONACYT. National Council of Science and Technology (Consejo Nacional de Ciencia y Tecnología - CONACYT #178415), “Power-aware Grid resource management and optimization strategies with quality of service”, 2012-2015

- PI: CICESE #634114 2011-2013
- PI: FNR (Fonds National de la Recherche, Luxembourg) “Eco-friendly power-aware parallel job management and optimization strategies in P-2-P cloud based systems”, collaboration with Université du Luxembourg, Luxembourg (Prof. Pascal Bouvry), 2012
- PI: DAAD - Deutscher Akademischer Austauschdienst, “Workflow scheduling on two layer Grid architectures” collaboration with University of Dortmund, Dortmund, Germany (Prof. Ramin Yahyapour), 2009
- PI: CONACYT. National Council of Science and Technology (CONSEJO NACIONAL DE CIENCIA Y TECNOLOGÍA CONACYT #48385), “Multilayer Hierarchy Job-Scheduling Strategies for a Computational Grid”, 2006-2012
- PI: CICESE
- PI: DAAD - Deutscher Akademischer Austauschdienst, “Admissible Resource Selection Strategies in Two Level Job-Scheduling for a Computational Grid” collaboration with University of Dortmund, Dortmund, Germany (Prof. Ramin Yahyapour) 2006
- Co-PI: LAFMI - Laboratorio Franco-Mexicano de Informática "Efficient biological sequence analysis by sequential and parallel algorithms" (collaboration with Prof. Denis Trystram, ENSIMAG, France), 2006.
- Co-PI: LAFMI - Laboratorio Franco Mexicano de Informática “Phylogenetic tree construction on big scale distributed systems and grids” (collaboration with Prof. Denis Trystram, ENSIMAG, France), 2004-2005
- Co-PI: NSF-CONACYT "An I-structure Runtime Cache System as a Data Structure for Parallel Cluster Computing”, collaboration with University of Southern California, Los Angeles, USA (collaboration with - Prof. Jean-Luc Gaudiot) (CONACYT #32989-A), 2001-2004
- Co-PI: UC MEXUS-CONACYT “Client-Server Discrete Event Simulation over Very Large Communication Networks (Internet2)“ (collaboration with Dr. Isaac D. Scherson, Information and Computer Science, University of California-Irvine, Irvine, CA, USA), 09.2001 –08.2002
- PI: CICESE. “Computación paralela en sistemas distribuidas de alto rendimiento” 2002-2004
- PI: REDII-CONACYT “La Red de Desarrollo e Investigación en Informática” - REDII, 2000
- Co-PI PI:CICESE-UABC - "Performance Vector Evaluation and Load Balancing based on Rate of Change in Heterogeneous Clusters ” (March 2000-April 2001)
- PI: CICESE. Parallel Computing on Scalable Shared Memory Supercomputers, 1999 - 2002
- PI: FUMEC - U.S.-Mexico Foundation for Science “Discrete event simulation applied to study of resource management” 1999
- PI: CONACYT. National Council of Science and Technology (CONSEJO NACIONAL DE CIENCIA Y TECNOLOGÍA CONACYT #1902P-A9507, 631202), “Parallel Computation on Associative Networks”, 1996-1998
- PI: CICESE. Abstract Network Machine 1996-1998

PhD Dissertations Directed

- Jorge Mario Cortez Mendoza “Dynamic Distributed Load Balancing in Elastic Clouds with Uncertainty”, 2014-
- Fermin Alberto Armenta Cano “Adaptive Power-Aware Virtual Machine Provisioning in IaaS Clouds with Quality of Service”, 2014-
- Marco Antonio Peña Luna “Analysis of deterministic scheduling strategies for the generation of academic timetables” CETYS, México, December 2013 (with Dr. Adan Hiraes)
- Ariel A. Quezada Pina “On line scheduling in Grids” CICESE, Mexico, September 2012
- Adan Hiraes Carbajal. “On-line job flow scheduling in Grids” CICESE, México, June 2012
- Juan Manuel Ramírez “Analysis of Two Levels Job-Scheduling Strategies for Computational Grid” CICESE, Mexico, 2011
- Victor Hugo Yaurima Basaldua “Two stages Flexible Flow Shop Scheduling Problem” UABC, Mexicali (collaboration with Dra. Larisa Burtseva, UABC) 2008
- Alfredo Cristóbal Salas. "Non-Strict Parallel Processing for Distributed Computer”, Ph.D., CICESE, (2002)
- Antonio Rodríguez Díaz. "Dynamic Scheduling of Unit Execution Time Tasks”, Ph.D. CICESE (2001)

12. Master’s Theses Directed

- Luis Angel Galaviz Alejos “Heterogeneous Consolidation with Concentration Policy for Energy-Aware Scheduling of Jobs with Resource Contention” (2016-2017)
- David Peña Morales “Multi-objective Public Transport optimization“ (2016-2017)
- Manuel Combarro Simon “Dynamic Adaptive Energy-Aware Scheduling for Cloud Computing Applications with Traffic Load Balancing ” (2016-2017)
- Marco Antonio Torreblanca Sánchez. UABC, Mexicali, Mexico (with Dr. Oleg Sergiyenko)
- Luz María Lozano Guzmán. Energy Efficient Scheduling with Quality of Service in Clouds. (Sept. 11, 2013)
- Aritz Barrondo Corral “Eco-friendly Peer-to-Peer Grids Using Knowledge-Free Scheduling” , (September 20, 2012)
- Alonso Mitza Aragón Ayala. "Green Grid Computing" (September 07, 2012)
- Anuar Lezama Barquet. “Grid computing with SLA constraints” (September 07, 2012)
- Vanessa Miranda López “On-line Scheduling in 2-level Grids with Min_Completion_Time job Allocation Strategy.
- Jorge Mario Cortez Mendoza “Parallel Job Multi-objective Scheduling in Grids with GEO (Generalized Extremal Optimization) Metaheuristic.
- Yair Castro García “ Parallel Job Multi-objective Scheduling in Grids with Application of Evolutionary Algorithms”
- José Luis González García “On-line Scheduling in Hierarchical Grids with Admissible Allocation Strategies”
- Ricardo Garibay Martínez “Adaptive Resource Management in Distributed Dynamic Real-Time Systems”
- Ariel A. Quezada Pina, Parallel Image Processing with Morphologic Filters, CICESE, Mexico, August 2007 (with Dr. Vitali Kober)
- Feng Liu "Parallel Multiple DNA Sequence Alignment, Technische Universität Clausthal Institut für Informatik, Deutschland
- Elizabeth Luhrs Olmos “Genetic Algorithms and parallel computing for multiple sequence alignment” CICESE (with Dr. Carlos Brizuela)
- Yolanda Avila Velasco “Simulation of Adaptive Strategy for Dynamic Scheduling”, 2003
- Blanca del Carmen Román Nava “Comparison of criteria and parallel algorithms applied for Multiple DNA sequence comparison”, CICESE (November 08, 2002)
- Daniel Jesús Valencia Sánchez, Parallel Rang Processing: Principles, Implementation and Application, CICESE, (October 30, 2002)
- Adan Hiraes Carbajal, Master of Science, Distributed System Performance Evaluation based on Geometric Model of Execution, CICESE (November 17, 2000)
- Romualdo Zayas Lagunas, Master of Science, Implementation and study of "Rate of Change" Algorithm on a cluster of PC's, CICESE (November 17, 2000)
- J. Reyes Ramirez Juarez, Master of Science, "Incomplete information processing as a tool for programs optimization and parallelization", CICESE (October 9, 2000)
- Armando Ayala C., Master of Science, "Parallel Computing on a Distributed Shared Memory Multiprocessor System", CICESE (February 1999)
- Edelmira Rodríguez, Master of Science, “Estudio experimental de la heurística MSF para calendarización dinámica de tareas en árboles y bosques”. (3 de Diciembre 1999), CICESE
- Alfredo Cristóbal Salas, Master of Science, "Optical Pattern Recognition of Non-compact Musical Objects ", CICESE (December 1996)

Ph.D. evaluation international committee member:

- Luxembourg. Computer Science and Communications Research Unit. University of Luxembourg. Ana-Maria Simionovici “Load Prediction and Balancing for Cloud-Based Voice Over IP Solutions” October 25 , 2016
- Malasia. Faculty of Computer Science and Information Technology, University of Malaya Ehab Nabel Alkhanak “A Multi-Objective Meta-Heuristic Approach for Cost Optimisation Scheduling of Scientific Workflow Applications in Cloud Environment”, October 2016.
- Germany. The Institute of Computer Science, Georg-August-Universität Göttingen, Ali Imran Jehangiri “Distributed Anomaly Detection and Prevention for Virtual Platforms”, July 17th, 2015
- Luxembourg. The faculty of Science, Technology and Communication. University of Luxembourg. Mateusz Guzek. “Holistic, Autonomic, and Energy-Aware Resource Allocation in Cloud Computing” December 4th, 2014

- Luxembourg. The faculty of Science, Technology and Communication. University of Luxembourg. Apostolos Stathakis. "Satellite Payload Reconfiguration Optimization," October 21, 2014
- Carlos Maria Barba Jimenez - *Instituto Tecnológico y de Estudios Superiores de Monterrey*. School of Engineering. Division of Mechatronics and Information Technologies "Model and Provisions for a Video On Demand Service that Operates Entirely on Multiple Third Party Cloud Storage Services" Nov. 2012-
- Violeta Medina Ríos - División de Estudios de Posgrado de la Facultad de Ingeniería Eléctrica en la *Universidad Michoacana de San Nicolás de Hidalgo*. México, 2013.(Alta Disponibilidad en Maquinas Virtuales con un Esquema de Replicación de Servicios TCP/IP)
- Emmanuel Romagnoli - Laboratoire d'Informatique de Grenoble LIG ENSIMAG, Grenoble *Institute of Technology INPG*, France 2003 (Exploitation efficace de grappes dynamiques de PC indifférenciés pour le calcul parallèle).

Invited Lectures and Keynotes

- UES - State University of Sonora. San San Luis Rio Colorado Academic Unit (Unidad Académica Universidad Estatal de Sonora) . August 29, 2016 "Cloud Computing"
- ISUM 2016 - 7th International Supercomputing Conference in Mexico, Puebla de Zaragoza, Puebla, México. (April 11-15, 2016) "Uncertainty is the Only Certainty in Cloud Computing" (ISUM)
- CCERD 2015 - The 6th International Conference "Cloud Computing. Education. Research. Development". Moscow, Russia, December 3-4th., 2015. "Challenges and Handling of Uncertainty in Cloud Computing Resource Allocation"
- En&T 2015 - International conference Engineering & Telecommunications, Moscow, Russia. November 18-19, 2015. "Cloud Computing Does not Come Without Uncertainty".
- UdelaR - University of the Republic, Uruguay, October 20, 2015 "Uncertainty in Cloud Computing Resource Management"
- RuSCDays'15 - The Russian Supercomputing Days. September 28-29, 2015, Moscow. Andrei Tchernykh, Uwe Schwiegelsohn, Vassil Alexandrov, El-ghazali Talbi. "Uncertainty in Clouds: challenges of efficient resource provisioning"
- University of Mons (UMONS), Mons, Belgium. October 7, 2015 "Cloud computing parallelism does not come without uncertainty",
- University of Dortmund, Dortmund, Germany. A VoIP Service Model for Scheduling in Cloud Infrastructure, July 21, 2015
- BSC—Research Seminar Lecture, Severo Ochoa Exelence Programme at Barcelona Supercomputing Center, "Scheduling with uncertainty in Grids and Clouds" March 20, 2015
- INRIA Lille - Nord Europe, Centre de recherché. "Understanding Uncertainty and Scheduling in Grid/Cloud environment" January 20, 2015
- University of Dortmund, Dortmund, Germany. Understanding Uncertainty in Cloud Computing. March 05, 2014
- Escuela de Modelación y Métodos Numéricos. CIMAT—Centro de Investigación en Matemáticas June 25-28, 2014 "Calendarización en sistemas paralelas y distribuidas (grides, nubes)"
- University of Notre Dame, Center for Research Computing. South Bend, Indiana, United States "Dynamic Scheduling with uncertainty in Grid and Cloud Computing" December 03, 2013
- University of Dortmund, IRF-IT, Dortmund, Germany. Online Scheduling for Cloud Computing with Different Service Levels preliminary experimental study. November 08, 2012
- University of Luxembourg. HPC, Grid and Cloud Computing Research. November 13, 2012
- RISC Awareness Raising Workshop, Network for Supporting the Coordination of Supercomputing Research between Europe and Latin America. 21 de Mayo 2012. Veracruz
- ENU-HPC 2012 - Primer Encuentro Nacional de Usuarios de Cómputo de Alto Desempeño. "Computación Verde". Universidad de Guanajuato, Campus Celaya-Salvatierra, Celaya Guanajuato. 14, 15, 16 de Mayo, 2012
- 6to Congreso de Ciencias Exactas 2012. "Administración de recursos en Grid con calidad de servicio amigable con el ambiente" Universidad Autónoma de Aguascalientes, Aguascalientes, Mexico (12-16 de marzo del 2012)

- Ingeniería en Electrónica y Comunicaciones, Universidad Veracruzana, Poza Rica, Veracruz, Mexico (20 de marzo del 2012). “HPC in México. Computación verde ”
- Ingeniería en Electrónica y Comunicaciones, Universidad Veracruzana, Poza Rica, Veracruz, Mexico (21 de marzo del 2012). “Super, Grid and Cloud Computing”
- RISC Awareness Raising Workshop. “HPC in Mexico: Looking to the Future based on solid foundations” Network for Supporting the Coordination of Supercomputing Research between Europe and Latin America. CONACYT, (21-25 de noviembre, 2011)
- CLCAR 2011 - Conferencia Latinoamericana de Computación de Alto Rendimiento. Colima, México (5-9 de septiembre, 2011)
- CIICC 2011. 17th International Congress on Computer Science Research, “Toward Green Grid Computing: Power-aware resource optimization by parallel job scheduling” Morelia, Mexico (26-28 de octubre del 2011)
- SIT 2011—XII SIMPOSIUM INTERNACIONAL DE TELEMÁTICA. Facultad de Telemática de la Universidad de Colima, México. Administración de trabajos paralelos amigable con el ambiente (May 23-27, 2011).
- ISUM 2011 2nd International Supercomputing Conference in Mexico 2011. Green Grid Computing: Eco friendly power-aware parallel job management. San Luis Potosí, México (March 21-25, 2011).
- ISUM 2011 2nd International Supercomputing Conference in Mexico 2011. San Luis Potosí, México (March 21-25, 2011). Tutorial : Algoritmos y métodos de Calendarización
- XXI Semana Regional de Investigación y Docencia en Matemáticas. Universidad de Sonora, Hermosillo, México, Andrei Tchernykh “Green Grid Computing: Eco-friendly power-aware parallel job management” (March 2, 2011)
- XXI Semana Regional de Investigación y Docencia en Matemáticas. Universidad de Sonora, Hermosillo, México, Tutorial : “Algoritmos y métodos de calendarización ” (February 28 – March 4, 2011)
- Cesues—Centro de Estudios Superiores del Estado de Sonora. Magdalena de Kino, Sonora , México. Scheduling in Grids. (November 3, 2010)
- Cesues—Centro de Estudios Superiores del Estado de Sonora. San Luis Río Colorado, Sonora , México. Large Scale Supercomputing: From Clusters to Computacional Grids. (June 24, 2010)
- CIIDIT—Centro de Innovación, Investigación y Desarrollo en Ingeniería y Tecnología, Monterrey, México Avances y Tendencias en Calendarización para Sistemas Distribuidos y Adaptativos (May 28, 2010)
- ISUM 2010 1st International Supercomputing Conference in Mexico 2010. Large Scale Supercomputing: Resource Management in Computational Grids. Guadalajara Jalisco , México (March 2-5, 2010).
- V Simposium Internacional de Cómputo, Departamento de Sistemas y Computación del Instituto Tecnológico de La Paz. Andrei Tchernykh Procesamiento distribuido de gran escala basado en un Grid Computacional. 11-13 de noviembre 2009.
- CGCT2009. Collaborative and Grid Computing Technologies Workshop. Andrei Tchernykh, Uwe Schwiegelshohn, Ramin Yahyapour "On-line Job Scheduling of Parallel Jobs in Grids" Cancun, Quintana Roo, Mexico, April 22th to April 24th, 2009
- 8CIC—8 Simposium Internacional de Computación. Andrei Tchernykh “Optimización de los recursos en un grid computacional”. , 7,8 y 9 de Noviembre 2008, ITESCA. Cd. Obregón, Sonora
- Semana de supercómputo. 50 años de la Computación en México. Andrei Tchernykh "Computación paralela: desde supercomputadoras y clústeres a Grid Computacional", Universidad Autónoma Metropolitana. unidad Iztapalapa (UAMI), 24 o 25 de Noviembre 2008
- UABC, Tijuana, México Andrei Tchernykh: (December 18, 2007) Teoría de Computación Paralela” en un taller “Computación en Grids
- University of Colima, Telemática, Colima, México, (October 6-7, 2005). Computational Resource Management: from supercomputers and Clusters to Computational GRIDS.
- 6°. International Congress of Computer Science, Villa de Alvarez, Colima, Mex. (September 28-30, 2005) Adaptive Scheduling Strategies in Cluster and Computational GRIDS (keynote speaker)
- 6°. International Congress of Computer Science, Villa de Alvarez, Colima, Mex. (September 28-30, 2005) Parallel Computing: from supercomputing and Clusters to Computational GRIDS, Algorithms, Programming, Scheduling (tutorial)
- The Institute for System Programming (ISP) of the Russian Academy of Sciences (RAS), Moscow, Russia. May 29, 2004 “Parallel computing and Resource Management in Cluster and GRID Environment”

- Universidad Autónoma de Baja California, Instituto de Ingeniería. Mexicali, Baja California, México. October 12, 2004 "Scheduling Strategies and Idle Regulation in Cluster and GRID Computing"
- PPAM 2003 - Fifth International Conference on Parallel Processing and Applied Mathematics, Czestochowa, Poland, September 7-10, 2003. Andrei Tchernykh, and Denis Trystram, "On-Line Scheduling of Multiprocessor Jobs with Idle Regulation"
- Instytut Informatyki, Politechnika Poznanska, Poznan, September 12, 2003, "Incomplete Data Structures and Non-strict Information Processing in Parallel and Distributed Computing."
- SCI 2002 - 6th World Multiconference on Systemics, Cybernetics and Informatics. Orlando, USA, July 14-18, 2002. Andrei Tchernykh, Denis Trystram. Adaptive Strategy for On-Line Scheduling of Real World Parallel Applications.
- Instytut Informatyki, Politechnika Poznanska, Poznan, 07 de Abril, 2001, "On-line scheduling strategy for unit execution time tasks"
- New Trends in Scheduling in Parallel and Distributed Systems, Marseille (FRANCE) 1-5 de Octubre, 2001, Andrei Tchernykh "Adaptive (a,b,c)-Scheme Strategy for On-Line Scheduling"
- WIT'01 - Germany-Mexico Workshop on Information Technology, February 21-24, 2001, Puebla, México. Klaus Ecker, Andrei Tchernykh "Efficient Tools for Designing Scientific Applications in PC's clusters"
- Institut fuer Informatik, Technische Universitaet Clausthal, Alemania, 07 de Octubre, 2001, A.N.Tchernykh (CICESE) "Distance Learning Education: Dynamic Visualization in Parallel Computing Class"
- Universidad Estatal de Moscú, Moscú, Rusia, 19 de Abril, 2001 "Parallel Cluster Computing"
- Institut National Polytechnique de Grenoble, Grenoble, Francia, 22 de Marzo de 2001 "Maximum Number of Immediate Successors First Strategy for On-Line Scheduling of Unit Execution Time Tasks"
- Universite Joseph Fourier, INSTITUT D'INFORMATIQUE ET DE MATHEMATIQUES APPLIQUEES DE GRENOBLE - IMAG, Laboratoire de Modélisation et Calcul, ENSIMAG, Grenoble, Francia, 02.03.2000 "Dynamic Incomplete Structures for Fine-Grain Parallel Computing" (UCC462)
- Primera Jornada Franco-Mexicana de Informática, 16-18 de Noviembre, 2000, ENSIMAG, Grenoble, Francia, "Computación paralela en cluster para aplicaciones científicas" Andrei Tchernykh, Denis Trystram
- Laboratoria Nacional de Informatica Avanzada - LANIA, Xalapa, Mexico, November 23, 2000, Andrei Tchernykh "Parallel Cluster Computing for Scientific Applications"
- X Dia del COMPUTOLOGO, (1 de Noviembre de 1999), UABC, Ensenada, BC, Mexico. A. Tchernykh . La Investigacion en Computación Paralela.
- 1er Simposio de Redes de Computadoras CIC-REDCOM'99 "Parallel Partial Evaluation for Specialization and Optimization of Parallel Programs", México, September, 1999
- SEMANA DE SUPERCÓMPUTO, Cómputo Paralelo y Distribuido, June 21-25, 1999, UNAM, Ciudad de México, Andrei Tchernykh "Parallel Computing Paradigms"
- Septima Simposium Computacional, Universidad Autonoma de Aguascalientes, March 2-6, 1999, Aguascalientes, Mexico, Andrei Tchernykh "Parallel Computation: Perspective in Supercomputing"
- New Trend in Scheduling in Parallel and Distributed Systems (Junio 15-19, 1998), *Aussois, Francia*. A.N.Tchernykh, A.M.Stepanov, N.G.Tchernykh " Parallel Computation on Associative Network with Partial Evaluation Effect" (CECCV9804)
- Information System for Teaching and Research in Computer Science (29 de Mayo - 12 de Junio 1998, *Clausthal-Zellefeld, Hannover, Germany*), A.Tchernykh. "Parallel Computing and Distant Learning Education"
- Primera Escuela de Invierno en Sistemas Distribuidos EISD98, November 23-27, 1998, Guadalajara, Mexico, Andrei Tchernykh "Computación Paralela" (tutorial)
- IX Dia del COMPUTOLOGO La Investigacion en Ciencias Computacionales en Mexico (6 de Noviembre de 1998), UABC, Ensenada, BC, Mexico
- XIII Congreso de Instrumentacion SOMI, Mexican Society of Instrumentation, Ensenada, BC, Oct. 5-9, 1998
- Universidad Autónoma del Estado de Morelos, Facultad de Ciencias (Quernavaca, Morelos). Andrei Tchernykh "ANM Paradigm in Parallel Computing, (4 de Marzo de 1998)(CECCV9801)
- IV Simposium Tecnológico de Baja California (April 25, 1998), *Ensenada, Baja California, Mexico*, Andrei Tchernykh "Parallel Computing: tendency and perspectives"
- III Symposium Intercontinental of Sciences (April 1-3, 1998), *Chetumal, Quintana Roo, Mexico*. Andrei Tchernykh, Natalia Tchernykh "Paradigms in Parallel Computing"

- Workshop on Scheduling in Computer and Manufacturing System, Mayo 27-31, 1996, Lessach, Austria. A.N.Tchernykh, “Non-deterministic scheduling problems in Abstract Network Machine” (CEETV9617)
- Institut für Informatik der Technische Universität Clausthal, Junio de 1996, Alemania - A.Tchernykh (CICESE), I.Kupka (Institut für Informatik, Clausthal). “Parallelism in declarative languages”
- 1 Simposio Internacional de Ingeniería en Sistemas Computacionales e Informática (October 7-10, 1996), Zacatecas, Mexico. A.N.Tchernykh, “Parallel Computations on Associative Networks. A New Approach to Computing”
- XXV Symposium of Chemistry and Engineering, November 30 - December 1, 1995, UABC, Tijuana, Mexico, A.N.Tchernykh., “Parallel Programming”
- CICESE, Septiembre 7, 1995. A. Tchernykh “Computación paralela en redes asociativas”.

Member of a program committee of international conferences

ISPRAS OPEN 2016	Open Conference of the ISPRAS Moscow, Russia. December 5-9, 2016
CARLA2016	Latin American High Performance Computing Conference. ABACUS-CINVESTAV Mexico City, Mexico, August 29 - September 2, 2016
CloudCom 2016	High Performance Computing (HPC) in/with the Cloud. - 8th IEEE International Conference on Cloud Computing Technology and Science. Luxembourg, Dec 12th ~ Dec 15th, 2016
CloudCom 2016	Distributed Cloud/Cloud Brokering/Edge Computing. - 8th IEEE International Conference on Cloud Computing Technology and Science. Luxembourg, Dec 12th ~ Dec 15th, 2016
WORKS 2016	Workflows in Support of Large-Scale Science. In conjunction with SC15 The International Conference for High Performance Computing, Networking, Storage and Analysis, November 15-20, 2015, Austin, Texas
ADVCOMP 2016	The Tenth International Conference on Advanced Engineering Computing and Applications in Sciences, October 9 - 13, 2016 - Venice, Italy
IC3 -2016	The Ninth International Conference on Contemporary Computing, 11-13 August 2016, Jaypee Institute of Information Technology Noida, India
ICCS SPU 2016	Solving Problems with Uncertainties workshop. In conjunction with The 16th International Conference on Computational Science (ICCS 2016) , San Diego, California, U.S.A., June 6-8, 2016.
ICA3PP 2016	16th International Conference on Algorithms and Architectures for Parallel Processing, Granada, Spain, December 14-16, 2016
InterCloud-HPC 2016	International Symposium on Cloud Computing and Services for High Performance Computing Systems. Innsbruck, Austria July 18 – July 22, 2016
CCGRID 2016	The Doctoral Symposium of the IEEE/ACM 15th International Symposium on Cluster, Cloud and Grid Computing. Cartagena, Colombia, May 16-19, 2016
NIDISC 2016	The 19th International Workshop on Nature Inspired Distributed Computing. In conjunction with The 30th IEEE/ACM International Parallel and Distributed Processing Symposium (IPDPS'2016), 23-27 May 2016, Chicago, USA
FINE 2016	EAI International Conference on Future Internet (FI) Infrastructures and Enablers (FINE 2016). Puebla, Mexico, May 25th - 27th, 2016
ICA3PP 2015	15th International Conference on Algorithms and Architectures for Parallel Processing, Zhangjiajie, China, November 18-20, 2015
CCERD 2015	The 6th International Conference "Cloud Computing. Education. Research. Development". Moscow, Russia, December 3-4th., 2015
NC&SC'2015 RuSCDays'15	Network Computing & Supercomputing workshop. The Russian Supercomputing Days , September 28-29, 2015, Moscow.

[En&T 2015](#) International conference Engineering & Telecommunications, Moscow, Russia. November 18-19, 2015 ([En&T 2015 russian](#))

[COMTEL 2015](#) VII International Conference on Computer Science and Telecommunication (VII Congreso Internacional de Computación y Telecomunicaciones), Lima - Perú, September 23-26, 2015.

[WORKS 2015](#) Workflows in Support of Large-Scale Science. In conjunction with [SC15](#) The International Conference for High Performance Computing, Networking, Storage and Analysis, November 15-20, 2015, Austin, Texas

[TrustData 2015](#) 6th International Workshop on Trust, Security and Privacy for Big Data, In Conjunction with The 15th International Conference on Algorithms and Architectures for Parallel Processing ([ICA3PP 2015](#)) Zhangjiajie, China, November 18-20, 2015

[IC3 -2015](#) The Eighth International Conference on Contemporary Computing, 20-22 August 2015, Noida, India

[ITQM 2015](#) The Third International Conference on Information Technology and Quantitative Management. Rio De Janeiro, Brazil July 21-24, 2015

[SPC 2015](#) Workshop on Scheduling for Parallel Computing. In conjunction with the 11th International Conference on Parallel Processing and Applied Mathematics [PPAM 2015](#) in Kraków, Poland, on September 6-9, 2015

[PPAM 2015](#) 11th International Conference on Parallel Processing and Applied Mathematics, Krakow, Poland, September 6-9, 2015

[InterCloud-HPC 2015](#) International Symposium on Cloud Computing and Services for High Performance Computing Systems. In conjunction with [HPCS 2015](#), The 2015 International Conference on High Performance Computing & Simulation in Amsterdam, The Netherlands, on July 20-24, 2015

[ECS 2015](#) International Scientific and Technical Conference "Electronic and computer systems: theory and practice". Odessa, Ukraine, July 20-24, 2015

[CARLA 2015](#) Latin American Conference on Advanced and High Performance Computing. Petrópolis, Brasil. August 26-28, 2015

[CloudNet 2015](#) 4th IEEE International Conference on Cloud Networking (IEEE CloudNet 2015), Niagara Falls, 5-7 of October 2015

[ADVCOMP 2015](#) The Ninth International Conference on Advanced Engineering Computing and Applications in Sciences, July 19 - 24, 2015 - Nice, France

[SPU 2015](#) Solving Problems with Uncertainties workshop. In conjunction with The [15th International Conference on Computational Science \(ICCS 2015\)](#), Reykjavík, Iceland, June 1- 3, 2015.

[NIDISC 2015](#) The 18th International Workshop on Nature Inspired Distributed Computing. In conjunction with The 29th IEEE International Parallel and Distributed Processing Symposium ([IPDPS'2015](#)), 25-29 May 2015, Hyderabad, India

[MIC 2015](#) 11th Metaheuristics International Conference. Agadir, Morocco, June 7-10, 2015

[MfSC 2015](#) [Metaheuristics for smart cities](#) in conjunction with 11th Metaheuristics International Conference. Agadir, Morocco, June 7-10, 2015

[CCGRID 2015](#) The Doctoral Symposium of the IEEE/ACM 15th International Symposium on Cluster, Cloud and Grid Computing. Shenzhen, China May 4-7, 2015

[BusinessClouds 2014](#) The 14th IEEE International Conference on Scalable Computing and Communications (ScalCom-2014). Denpasar, Bali; Indonesia; 9-12 December 2014

[STE 2014](#) IADIS International Conference on Sustainability, Technology and Education. **New Taipei City**, Taiwan, December 10 – 12, 2014

[CONEISC 2014](#) XXII Congreso Nacional de Estudiantes de Ingeniería de Sistemas y Computación 2014 (Trujillo-Perú, August 18-23, 2014)

[WORKS 2014](#) The 9th Workshop on Workflows in Support of Large-Scale Science. in conjunction with SC 14 (New Orleans, Louisiana, Nov. 16, 2014).

[IC3-2014](#) Seventh International Conference on Contemporary Computing (IC3), Jaypee Institute of Information Technology, Noida (delhi), India. August 7-9, 2014

TrustData 2014	5th IEEE International Workshop on Trust, Security and Privacy for Big Data. August 24-27, 2014. Dalian, China
CARLA 2014	First HPCLATAM - CLCAR Joint Conference. Latin American High Performance Computing Conference. Valparaíso, Chile. October 20-22, 2014
HPCC 2014	IEEE 16th International Conference on High Performance Computing and Communications. Paris, France, August 20-22, 2014
CloudNet 2014	The 2014 3rd IEEE International Conference on Cloud Networking (IEEE CloudNet 2014), Luxembourg, 8-10 of October 2014.
SCCG-2014	3rd International Workshop on Soft Computing Techniques in Cluster, Grid, and Cloud Computing Systems. In conjunction with 3PGCIC 2014 - Ninth International Conference on P2P, Parallel, Grid, Cloud and Internet Computing . November 8-10, 2014, Guangzhou, China
OPTIM 2014	1. International Workshop on Optimization Issues in Energy Efficient Distributed Systems. In conjunction with International Conference on High Performance Computing & Simulation (HPCS 2014) , July 21 - 25, 2014, Bologna, Italy
COMTEL 2014	VI International Conference on Computer Science and Telecommunication (VI Congreso Internacional de Computación y Telecomunicaciones), Lima - Perú, October 22-24, 2014.
C4BIE 2014 CCGRID 2014	IEEE/ACM 14th International Symposium on Cluster, Cloud and Grid Computing. Cloud for Business, Industry and Enterprises 2013 workshop C4BIE, Chicago, IL, USA May 26-29, 2014
ICMS 2014	2. International Conference on Mechatronics and Automatic Control Systems. Beijing Hangzhou, China, August 16-18, 2014.
CITI 2014	3er. Congreso Internacional de Tecnologías de Información, Universidad de Colima, Colima, Mexico (22-26 September, 2014)
CCE 2014	11th International Conference on Electrical Engineering, Computing Science and Automatic Control. Ciudad del Carmen, Campeche. Mexico, September 29-October 03, 2014
ISUM 2014	5th International Supercomputing Conference in Mexico, Ensenada, Baja California, México, (March 18-21, 2014)
ICIIP 2013	IEEE Second International Conference on Image Information Processing. Jaypee Jaypee University of Information Technology Waknaghat Dumeh Shimla, India (December 09 - 11, 2013)
STE 2013	IADIS International Conference on Sustainability, Technology and Education. Kuala Lumpur - Malaysia, 29 November to 1 December 2013
COMTEL 2013	V International Conference on Computer Science and Telecommunication (V Congreso Internacional de Computación y Telecomunicaciones), Lima - Perú, October 22-25, 2013.
CLCAR2013	Latin American Conference on High Performance Computing - Conferencia Latinoamericana de Computacion de Alto Rendimiento 2013, San José, Costa Rica , August 26-30, 2013
EUC 2013	IEEE/IFIP 11th International Conference on Embedded and Ubiquitous Computing (Power-Aware Computing Track), Zhangjiajie, China, November 13-15, 2013
HPCC 2013	IEEE 15th International Conference on High Performance Computing and Communications. Zhangjiajie, China, November 13-15, 2013
ICMS 2013	3. International Conference on Mechatronics and Automatic Control Systems. Hangzhou, China, August 9-10, 2013.
OPTIM 2013	4. Workshop on Optimization Issues in Energy Efficient Distributed Systems. In conjunction with International Conference on High Performance Computing & Simulation (HPCS 2013) , July 1 - July 5, 2013, Helsinki, Finland
IC3-2013	6th International Conference on Contemporary Computing. Jaypee Institute of Information Technology, Noida, India. August 8-10, 2013
SPwU 2013	Solving Problems with Uncertainties 2013 workshop, in conjunction with ICCS 2013 The International Conference on Computational Science, Barcelona, Spain, June 5-7, 2013

[C4BIE 2013](#)
[CCGRID 2013](#) IEEE/ACM 13th International Symposium on Cluster, Cloud and Grid Computing. Cloud for Business, Industry and Enterprises 2013 workshop, Delft University of Technology, Delft, Netherlands, May 14-16, 2013

[PPAM 2013](#) 10th International Conference on Parallel Processing and Applied Mathematics PPAM 2013 in Warsaw, Poland, September 8-11, 2013

[SPC 2013](#) Workshop on Scheduling for Parallel Computing, Warsaw, Poland, September 08-11, 2013. In conjunction with the 10th International Conference on Parallel Processing and Applied Mathematics [PPAM 2013](#) in Warsaw, Poland, on September 8-11, 2013

[Euro-Par 2013](#) Euro Par 2013. Topic 3: "Scheduling and Load Balancing" - International conference. August 26-30th, [Aachen, Germany](#)

[Extreme Scale 2013](#) Workshop on Computational Science for Extreme Scale Computing (January 29-31, 2013, Cancun, Mexico)

[CITI 2013](#) 2o. Congreso Internacional de Tecnologías de Información, Universidad de Colima, Colima, Mexico (25-27 September, 2013)

[CCE 2013](#) 10th International Conference on Electrical Engineering, Computing Science and Automatic Control. Mexico City, September 30-October 4, 2013

[ENC'13](#) Mexican International Conference on Computer Science. Morelia, Michoacán, México (30, 31 October, 1st November, 2013) - Encuentro Internacional de Ciencias de la de la Computación

[Tekhne 2013](#) Multidisciplinary Congress: Innovation in Computer Science, Biochemistry and Industrial Engineering. Instituto Tecnológico de Morelia (October 16-18, 2013)

[ISUM 2013](#) 4th International Supercomputing Conference in Mexico, Manzanillo, Colima, México, (March 05-08, 2013)

[SCALSOL 2012](#) 2nd Workshop on Scalable Solutions for GreenIT (December 18, 2012, Changzhou, China) in conjunction with the IEEE International Conference on Scalable Computing and Communication ([SCALCOM-2012](#)) .

[STE 2012](#) IADIS International Conference on Sustainability, Technology and Education, Perth, Australia. 28–30 November 2012

[OPTIM 2012](#) 5. Workshop on Optimization Issues in Energy Efficient Distributed Systems (OPTIM 2012). In conjunction with International Conference on High Performance Computing & Simulation ([HPCS 2012](#)) , July 2 - July 6, 2012, Madrid, Spain

[CCE 2012](#) 9th International Conference on Electrical Engineering, Computing Science and Automatic Control. Mexico City, September 26-28, 2012

[ENU-HPC 2012](#) Encuentro Nacional de Usuarios de Cómputo de Alto Desempeño, Celaya, Guanajuato, México (May 14-16, 2012)

[ISUM 2012](#) 3rd International Supercomputing Conference in Mexico , Guanajuato, México, (marzo 23-26, 2012)

[PPAM'11](#) 9th International Conference on Parallel Processing and Applied Mathematics PPAM 2011 in Toru, Poland, on September 11-14, 2011

[SPC 2011](#) Workshop on Scheduling for Parallel Computing, Toru, Poland, September 11-14, 2011. in conjunction with the 9th International Conference on Parallel Processing and Applied Mathematics PPAM 2011 in Toru, Poland, on September 11-14, 2011

[SCALSOL 2011](#) IEEE 11th International Conference on Scalable Computing and Communications ([SCALCOM 2011](#)). Workshop on Scalable Solutions for GreenIT. In conjunction with The 11th International Conference on Computer and Information Technology ([CIT 2011](#)), August 31– September 2 2011, Hotel Playa Coral, Pafos Cyprus

[ISUM 2011](#) 2nd International Supercomputing Conference in Mexico , San Luis Potosí, México, (marzo 21-25, 2011)

[CCE 2011](#) 8th International Conference on Electrical Engineering, Computing Science and Automatic Control. Merida, Mexico, October 26-28, 2011

[IBERGRID'2010](#) 4th Iberian Grid Infrastructure Conference . Braga, Portugal, May 24-27, 2010

CLTM 2010	XVIIth Latin-American Master's Thesis Contest (CLTM 2010). The 36th Latin American Informatics Conference. 18 -22 octubre, 2010 en Asuncion, Paraguay
ISUM 2010	1st International Supercomputing Conference in Mexico 2010, Guadalajara Jalisco , México marzo 2-5, 2010)
PPAM'09	Eighth International Conference on Parallel Processing and Applied Mathematics PPAM 2009, Wrocław, Poland, (September 13-16, 2009)
SPC 2009	Workshop on Scheduling for Parallel Computing, Wrocław, Poland, Eighth International Conference on Parallel Processing and Applied Mathematics PPAM 2009 (September 13-16, 2009)
Euro-Par 2009	15th International European Conference on Parallel and Distributed Computing . Delft, The Netherlands (August 25-28, 2009)
CIC 2009	18 th International Conference on Computing, diciembre 7–9, Ciudad de México, México.
CORE 2009	10th International Conference on Computing, Ciudad de México, México (mayo 27-29, 2009)
CORE 2008	9th International Conference on Computing, Ciudad de México, México (mayo 28-30, 2008)
PPAM'07	Seventh International Conference on Parallel Processing and Applied Mathematics, Gdansk, Poland (September 9-12, 2007)
PBC'07	Workshop on PARALLEL BIO-COMPUTING en marco de framework of Seventh International Conference on Parallel Processing and Applied Mathematics, Gdansk, Poland (September 9-12, 2007)
CICC 2006	7°. Congreso Internacional de las Ciencias Computacionales, Villa de Alvarez, Colima, México. (octubre 25-27, 2006)
CORE 2006	7th International Conference on Computing, México (mayo 8-10, 2006)
ISSADS'06	Sixth IEEE International Symposium and School on Advance Distributed Systems, Guadalajara, Jalisco, México (enero 23-27, 2006)
I-SPAN 2005	International Symposium on Parallel Architectures, Algorithms, and Networks. University of Nevada, Las Vegas. (December 7-9, 2005)
PBC'05	Workshop on PARALLEL BIO-COMPUTING in framework of Sixth International Conference on Parallel Processing and Applied Mathematics, Poznan, Poland (September 11-14, 2005)
SPCS'05	Workshop on scheduling for parallel computing within the framework of Sixth International Conference on Parallel Processing and Applied Mathematics, Poznan, Poland (September 11-14, 2005)
PPAM'05	Sixth International Conference on Parallel Processing and Applied Mathematics, Poznan, Poland (September 11-14, 2005)
CICC 2005	6°. Congreso Internacional de las Ciencias Computacionales, Villa de Alvarez, Colima, Mex. (septiembre 28-30, 2005)
CORE 2005	Congreso Nacional de Computación, México (mayo 6-7, 2005)
ISSADS'05	Fifth IEEE International Symposium and School on Advance Distributed Systems, Guadalajara, Jalisco, México (enero 24-28, 2005)
AWIC'04	Atlantic Web Intelligence Conference 2004, Cancún, México (mayo 16-19 2004)
ENC'04	Encuentro Internacional de Ciencias de la Computación 2001, Colima, <i>México</i> (septiembre 20-24, 2004)
ISSADS 2004	Third IEEE International Symposium and School on Advance Distributed Systems, Guadalajara, Jalisco, México (enero 28-30, 2004)
EITI-2003	Encuentro de investigación sobre tecnologías de información aplicadas a la solución de problemas, Medellín, Colombia (2003)
WeScience 2003	The 1st International Workshop on e-Science, Algarve, Portugal (noviembre 2003)
CORE 2003	Congreso Nacional de Computación, México (mayo 6-7, 2003)

CEAD2002	2do. Congreso Internacional de Educación Abierta y a Distancia, Tijuana, Baja California, México (6-8 de junio, 2002)
EICCM'01	Encuentro Internacional de Ciencias de la Computación 2001 <i>México</i> (septiembre 13-16, 2001)
HPSECA00	Workshop on High Performance Scientific and Engineering Computing with Applications. Toronto, Canada, (August 21-24, 2000) in conjunction with ICPP-2000,
APSCC'2000	Asia-Pacific Symposium on Cluster Computing (May 14-17, 2000), Beijing, China
ISADS 2000	International Symposium on Advanced Distributed Systems. 8-10 de marzo, 2000, Guadalajara, Jalisco, México.
ENC'99	Encuentro Nacional de Computación, Sistemas Distribuidos y Paralelos, <i>México</i> (septiembre 13-16, 1999).
CIE'99	QUINTA Conferencia de Ingeniería Eléctrica , 8, 9 y 10 de septiembre de 1999, México, D.F. Departamento de Ingeniería Eléctrica, CINVESTAV IPN
UCI-CICESE 98	UCI-CICESE Workshop "Research Perspectives in Computational Science" April 24, 1998 Ensenada, Baja California, México
ENC'97	6. Primer Encuentro Nacional de Computación, Sistemas Distribuidos y Paralelos, <i>Querétaro, Qro, México</i> (Septiembre 11-13, 1997)

Journal reviewer

- SpringerPlus (Springer, IF 0.982)
- International Journal of Engineering Science and Technology (Elsevier)
- International Journal of Metaheuristics. (Inderscience)
- International Transactions in Operational Research (Wiley, IF 0.977)
- IEEE Computational Intelligence Magazine (IEEE, IF 4.63)
- Future Generation Computer Systems (Elsevier, IF 2.365)
- IEEE Transactions on Parallel and Distributed Systems (IEEE Computer Society, IF 1.733)
- Journal of Grid Computing (Springer, IF 1.556)
- Parallel Computing (Elsevier, North-Holland, 1.311)
- Journal of Parallel and Distributed Computing (Elsevier, IF 1.12)
- Journal of Scheduling (Elsevier, England, IF 1.051)
- Journal of Combinatorial Optimization (Springer, IF 0.867)
- Discrete Applied Mathematics (Elsevier, North-Holland, IF 0.795),
- Computer Journal (Oxford University Press, IF 0.755)
- Cluster Computing (Springer, IF 0.519)
- International Journal of Computer Mathematics (Taylor & Francis, IF 0.5)
- Computacion y Sistemas - CyS (CIC-IPN, Mexico, IF 0.0862)

Conference reviewer:

CloudCom 2016, WORKS 2016, DVCOMP 2016, IC3 2016, ICCS SPU 2016, ICA3PP 2016, InterCloud-HPC 2016, CCGRID 2016, NIDISC 2016, FINE 2016, ICA3PP 2015, NC&SC'2015, En&T 2015, COMTEL 2015, WORKS 2015, TrustData 2015, IC3 -2015, ITQM 2015, SPC 2015, PPAM 2015, InterCloud-HPC 2015, ECS 2015, CARLA 2015, CloudNet 2015, ADVCOMP 2015, EuroPar 2015, ICCS 2015, MIC 2015, NIDISC 2015, CCGRID 2015, CONEISC 2014, WORKS 2014, IC3-2014, TrustData 2014, CARLA 2014, COMTEL 2014, OPTIM 2014, SCCG-2014, CloudNet 2014, HPCC 2014, C4BIE 2014 (CCGRID 2014), ICMS 2014, ISUM 2014, CCE14, IEEE IES ISIE14, ICIIP 2013, STE 2013, COMTEL 2013, CLCAR2013, EUC 2013, HPCC 2013, ICMS 2013, OPTIM 2013, IC3-2013, SPwU 2013, C4BIE 2013, CCGRID 2013, SPC 2013, Euro-Par 2013, Tekhne 2013, CITI 2013, ENC 2013, ISUM 2013, STE 2012, OPTIM 2012, ENU-HPC 2012, CCE 2012, ISUM 2012, SCALSOL 2011, EuroPar 2011, CGCTW 2011, SPC 2011, ISUM 2011, IBERGRID'2010, ISUM 2010, SPC 2009, PPAM'09, CIC 2009, CORE 2009, Euro-Par 2009, CORE 2008, PPAM'07, PBC'07, CICC 2006, CORE 2006, ISSADS 2006, CICC 2005, CORE 2005. I-SPAN 2005, PBC'05, SPCS'05, PPAM'05, ISSADS'05, GRID 2004, PCS04, ENC'04, AWIC04, ISSADS 2004, EuroPar 2003, EITI-2003, CORE 2003, EuroPar 2002, CEAD 2002, ISADS 2002, ENC'01, HPSECA00, APSCC'2000, ISADS 2000, CIE'99, ENC'99, ENC'97

Teaching experience

Undergraduate: Parallel Algorithms, Applied Aspects of Software, Personal Computers: Software and Hardware, Applied Aspects of Software, Database Application Design

Graduate and postgraduate: Advance Parallel Computing, Algorithms and Parallel programming, Introduction in Functional Programming using SISAL, Models of Parallel Computation, Parallel Algorithms for Abstract Machines, Parallel and Distributed Processing, Parallel Computation on Associative Networks, Parallel Computing, Parallel Computing Paradigms, Parallel Computing Scheduling, Parallel Programming, Practical Aspects of Parallel Programming, Real-time Systems in Parallel Computing, Resource optimization and scheduling for Parallel and GRID Computing, Scheduling for parallel and distributed computing, Selected topics of bioinformatics, Selected topics of parallel computing

Publications

Journals

- Jorge M. Cortés-Mendoza, Andrei Tchernykh, Fermin A. Armenta-Cano, Pascal Bouvry, Alexander Yu. Drozdov, and Loic Didelot, “Biobjective VoIP Service Management in Cloud Infrastructure,” *Scientific Programming*, vol. 2016, Article ID 5706790, 14 pages, 2016. doi:10.1155/2016/5706790. <https://www.hindawi.com/journals/sp/2016/5706790/>
- O.Yu. Sergiyenko, M.V. Ivanov, V.V. Tyrsa, V.M. Kartashov, M. Rivas-López, D. Hernández-Balbuena, W. Flores-Fuentes, J.C. Rodríguez-Quiñonez, J.I. Nieto-Hipólito, W. Hernandez, A. Tchernykh. Data transferring model determination in robotic group. **Robotics and Autonomous Systems**. Volume 83, September 2016, Pages 251–260. Elsevier, 2016, Impact Factor 1.229 ([PDF 874KB](#))
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