

Symposium on Where is Technology Taking Us Next?

Technological Impacts on Individuals and Society in the Next Decade

Introduction: The rapid technological advancements within the past two decades have had a fundamental impact on all facets of life, and especially the social fabrics within all societies worldwide. Each decade brings forth a multitude of innovative utilizations of information and communication technologies; paving the way for more progressive inter-cultural and interdisciplinary exchanges.

Aim and Scope: This symposium features researchers from various regions of Mexico, as well as other Latin American countries; who will present their expert views and predictions regarding the technological advancements that they foresee occurring in the next decade, as well as their prospective impact on different aspects of personal and social life both in their region, and also around the globe. The session will conclude with an open question and answer session.

Topics of Discussion:

- Nanotechnology in the next decade.
- Higher education in the next decade.
- Healthcare and medicine in the next decade.
- Knowledge workers and knowledge sharing in the next decade.
- Government organizations and policy in the next decade.
- Socio-politics around the world in the next decade.

Expert Panelists:

- **Dr. Rodrigo Sandoval-Almazán**
Autonomous University of the State of México, México
- **Dr. Gordana Jovanovic Dolecek**
Institute INAOE, México
- **Dr. Manuel Santos-Trigo**
Centre for Research and Advanced Studies, Cinvestav-IPN, México
- **Dr. David Ernesto Troncoso Romero**
National Council of Science and Technology, México
- **Dr. José de Jesús Pérez Bueno**
Centro de Investigación y Desarrollo Tecnológico en Electroquímica, S.C., México



Presented by:

Dr. Mehdi Khosrow-Pour
Executive Editor, IGI Global

Editor-in-Chief:

Information Resources
Management Journal

Journal Cases on
Information Technology

Journal of Electronic
Commerce in Organizations

Journal of Information
Technology Research

Encyclopedia of Information
Science and Technology,
3rd Ed. (10-Volumes)

Symposium will Benefit:

- Researchers
- Faculty Members at
Higher Education Institutions
- Librarians
- Information Professionals
and IT Specialists
- Students
- Public Audience

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The auditorium at the
Instituto de Física at the main campus of UNAM

April 16, 2015 @ 10:00 a.m. – 1:00 p.m.

Reception will have light refreshments and a number of IGI Global book titles on display.



Dr. Rodrigo Sandoval-Almazán Autonomous University of the State of México, México

Dr. Rodrigo Sandoval-Almazán a Professor at the Political and Social Sciences Faculty at the Autonomous University of the State of Mexico, in Toluca City. Sandoval-Almazán is former editor of the Journal RECAL, Journal of Studies on Accountability, Management and Informatics (2011-2014) and member of the Digital Government Society Board. Dr. Sandoval-Almazán is the author of the book *The Long Walk of the Open Government: Theory, Metrics and Future*, recently awarded by the Latin American Public Administration Institute. Also, co-author of two books: *Social Networks at Organizations* (2012) and *IT on the Dynamics of Management Knowledge* (2015). He has also published articles and chapters in several academic journals and books: *Government Information Quarterly*, *Electronic Journal of Electronic Government*, *Information Polity*, *International Journal of E-Politics*, *Handbook of Research on Public Information Technology*; *Journal of Information Technology for Development*; *Espiral: Convergencia Revista de Ciencias Sociales and Espacios Públicos*. His research interests include: electronic government, information technologies and organizations, online social media and government, open government theory and metrics; online political marketing, new public management, and multi-method research approaches. Dr. Sandoval-Almazán has a Bachelor's Degree in Political Science and Public Administration, a Master's in Management focused on Marketing, and a Ph.D. in Management with Information Systems from the ITESM (2006).



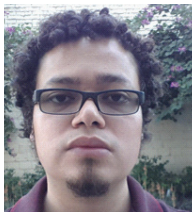
Dr. Gordana Jovanovic Dolecek Institute INAOE, México

Gordana Jovanovic Dolecek received a B.S. degree from the Department of Electrical Engineering, University of Sarajevo, an MSc degree from University of Belgrade, and a Ph.D. degree from the Faculty of Electrical Engineering, University of Sarajevo. In 1995 she joined Institute INAOE, Department for Electronics, Puebla, México, where she works as a full Professor. She was invited to hold lectures and short courses a number of times across the world. She is a reviewer for number of SCI journals and many international conferences. She was also a member of program committee for several international conferences. She is the Associate Editor for the journal *IEEE TCAS-II*. She is the author/co-author of four books, editor of one book, author of 21 book chapters and more than 300 journal and conference papers. In 2013 she published a book with Springer entitled: *Random Signals and Processes Primer with MATLAB*. She is a recipient of the Puebla State Award for Science (2012). Her research interests include digital signal processing and digital communications. She is a senior member of IEEE, the member of Mexican Academy of Sciences, and the member of National Researcher System (SNI) México.



Dr. Manuel Santos-Trigo Centre for Research and Advanced Studies, Cinvestav-IPN, México

Manuel Santos-Trigo is a Professor at the Mathematics Education Department, Centre for Research and Advanced Studies, Cinvestav-IPN, Mexico. He teaches graduate courses and does research in mathematical problem solving. His area of interest involves documenting and analyzing teachers and students' coordinated use of digital technologies in problem solving environments. He holds a BSc in mathematics (National Polytechnic Institute, Mexico) and completed his doctorate in mathematics education at the University of British Columbia, Canada. He has been a visiting scholar at several universities including, UC., Berkeley, Purdue University, l'Université d'Orléans, France, and la Laguna University (Spain). He has supervised 12 doctoral students and 25 master students in mathematics education and published extensively book chapters, journal articles, and books in the field of problem solving and the use of digital technologies.



Dr. David Ernesto Troncoso Romero National Council of Science and Technology, México

David Ernesto Troncoso Romero received the Bachelors of Science degree in Electronics Engineering by Minatitlán Institute of Technology in 2006 and the Masters of Science and Ph.D. degrees in Electronics by the National Institute of Astrophysics, Optics and Electronics (INAOE) México in 2008 and 2013, respectively. During 2011 he was a visiting Ph.D. student at the College of Engineering of Florida State University, USA. He was a postdoctoral researcher at INAOE from October 2013 to June 2014. Currently, he is a researcher for the National Council of Science and Technology (México), in the Cátedras Department, commissioned to the Section of Research and Postgraduate Studies of the Superior School of Computer Sciences in the National Polytechnic Institute (IPN) México. He is a member of IEEE since 2007 and a "Candidate level" member of SNI (National System of Researchers) México. His research interests are on the development of Digital Signal Processing algorithms for future communication systems based on emerging Software-Defined Radio platforms and on the reduction of computational complexity in digital processing arithmetic blocks.



Dr. José de Jesús Pérez Bueno Centro de Investigación y Desarrollo Tecnológico en Electroquímica, S.C., México

Dr. José de Jesús Pérez Bueno was born in 1973 in Zacatecas, México. He has been developing both basic and applied research, at the CIDE-TEQ (Centro de Investigación y Desarrollo Tecnológico en Electroquímica, S.C.), in the following areas: TiO2 nanotubes, solar energy harvesting, composite and hybrid materials, modification of surfaces, materials for water remediation, micro- and nano-structures, and sustainable housing materials. Dr. Perez has been an advisor in several concluded theses: nine Bachelor, nine Master Degree, three Ph.D.'s, and hosted three Postdoctorals. He has published 36 papers in international journals, which up to date have 250 citations. In addition, he has published five papers in national journals, 14 book chapters, and three books. His work includes a national patent granted in 2010, and six pending patent applications. He has received thirteen awards, including: three Alejandrina Awards granted by the Autonomous University of Querétaro – México; 2010 TECNOS Award; and the prize of the Institute of Materials Research of the UNAM, both to his doctoral thesis in 2003 as well as co-advisor in 2010. He has been granted around twenty-five projects for research. Currently, he is at level two in the SNI (National Researchers System).

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