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Research and Consulting: Network Communications, Telecommunications, and Internet Software

- Scientist, educator, and technologist with over 25 years of experience
- Co-author of over 25 scientific publications, journal articles, and peer-reviewed papers
- Named inventor on over 80 issued and filed patents
- Industry Fellow and Lecturer at UC Berkeley Engineering –Center for Entrepreneurship and Technology (CET)

EDUCATION

- **Ph.D.**, Computer Science specializing in networking and communications, UC Berkeley
- **M.Sc.**, Electrical Engineering, Tel Aviv University
- **B.Sc.**, Mathematics and Computer Science, Tel Aviv University

TECHNOLOGICAL EXPERTISE

Network communications, telecommunications, and Internet software technologies:

- **Communication networks:** Internet Protocols; TCP/IP suite; TCP; UDP; IP; VoIP; Ethernet; network protocols; network software applications; Data Link, Network, and Transport Layers (L2, L3, L4)
- **Routing/switching:** LAN; WAN; VPN; routing protocols; RIP; BGP; MPLS; OSPF; IS-IS; DNS; QoS; switching; packet switching; network infrastructure; network communication architectures
- **Mobile Wireless:** Wireless LAN; 802.11; cellular systems; mobile devices; smartphone technologies
- **Internet Software:** Internet software applications; Internet protocols; distributed computing; Web applications; FTP; HTTP; Java; C; C++; client server; file transfer; multicast; streaming media

LITIGATION SUPPORT SERVICES

- Expert witness in Federal courts, USPTO, and the ITC (over 30 cases)
- Expert witness in USPTO reexamination, interference and *inter partes* review (IPR)
- Expert reports, depositions, and courtroom testimonies
- Skilled articulation of technical material for both technical and non-technical audiences
- Product and technology analysis, patent portfolios, claim charts, patentability research
- Litigation support and technology education in patent disputes, patent reexaminations
- Past cases involved Google, Cisco, Juniper, HP, Ericsson, Microsoft, Apple, and Samsung

ACCOMPLISHMENTS

- Selected as Principal Investigator for three US Department of Defense (DARPA) projects
- Led research project on networking computation for the US Air Force Research Lab (AFRL)
- Led and developed the first network resource scheduling service for grid computing
- Led wireless research project for an undisclosed US federal agency
- Managed and engineered the first demonstrated transatlantic dynamic allocation of 10Gbs Lambdas as a grid service
- Spearheaded and planned the first demonstrated wire-speed active network on commercial hardware
- Invented over 80 patents; over 50 prosecuted *pro se* in front of the USPTO
- Created and chaired Nortel Networks' EDN Patent Committee
- IEEE Senior Member

PROFESSIONAL EXPERIENCE

TelecommNet Consulting, Inc. (Innovations-IP) Sunnyvale, CA 2006-Present

Principal Scientist

- Consults in the areas of network communications, telecommunications, Internet software technologies, and smartphone mobile wireless devices
- CTO at VisuMenu, a very small stealth-stage company developing visual IVR technologies for smartphones and wireless mobile devices in the area of network communications (since 2010)
- Provides architecture and system consultation for software projects relating to mobile wireless devices, Internet web applications, and computer networks
- Expert witness in network communications patent infringement suits. Services include:
 - Expert witness in Federal courts, USPTO (including reexamination, interference and *inter partes review (IPR)*), and the ITC
 - Past cases involved Google, Cisco Systems, Juniper Networks, Motorola, HP, Ericsson, Microsoft, Apple, and Samsung

University of California Berkeley, Berkeley, CA 2000-Present

Berkeley Industry Fellow, Lecturer, Visiting Scientist, Ph.D. Candidate, Nortel's Scientist Liaison

Some positions and projects were concurrent, others sequential

- Serves as Industry Fellow and Lecturer at the Center for Entrepreneurship and Technology (CET). Studied the areas of network services, telecommunication systems and software, communications infrastructure, and data centers

- Developed long-term technology for the enterprise market, integrating communication and computing technologies
- Conducted research projects in data centers (RAD Labs), telecommunication infrastructure (SAHARA), and wireless systems (ICEBERG)
- Acted as scientific liaison between Nortel Research Lab and UC Berkeley, providing tangible value in advanced technologies
- Earned Ph.D. in Computer Science, specializing in communications and networking

Nortel Networks, Santa Clara, CA

1996 - 2007

Originally employed by Bay Networks, which was acquired by Nortel Networks

Principal Scientist, Principal Architect, Principal Engineer, Senior Software Engineer

- Held scientific and research roles at Nortel Labs, Bay Architecture Labs, and CTO Office

Principal Investigator for US Department of Defense (DARPA) Projects

- Conceived, proposed, and completed three research projects: Active Networks, DWDM-RAM, and a networking computation project for Air Force Research Lab (AFRL)
- Led a wireless research project for an undisclosed US federal agency

Academic and Industrial Researcher

- Analyzed new technologies to reduce risks associated with R&D investment
- Spearheaded research collaboration with leading universities and professors at UC Berkeley, Northwestern University, University of Amsterdam, and University of Technology Sydney
- Evaluated competitive products relative to Nortel's products and technology
- Proactively identified prospective business ideas, leading to new networking products
- Predicted technological trends in advance through researching the technological horizon and academic sphere
- Developed software for switches, routers and network communications devices
- Developed systems and architectures for switches, routers, and network management
- Researched and developed the following projects:
 - Data-Center Communications: network and server orchestration 2006-2007
 - DRAC: SOA-facilitated L1/L2/L3 network dynamic controller 2003-2007
 - Omega: classified wireless project for undisclosed US Federal Agency 2006

- Open Platform: project for the US Air Force Research Laboratory (AFRL) 2005
- Network Resource Orchestration for Web Services Workflows 2004-2005
- Proxy Study between Web/Grids Services and Network Services 2004
- Streaming Content Replication: real-time A/V media multicast at edge 2003-2004
- DWDM-RAM: US DARPA-funded program on agile optical transport 2003-2004
- Packet Capturing and Forwarding Service on IP and Ethernet traffic 2002-2003
- CO2: content-aware agile networking 2001-2003
- Active Networks: US DARPA-funded research program 1999-2002
- ORE: programmable network service platform 1998-2002
- JVM Platform: Java on network devices 1998-2001
- Web-Based Device Management: network device management 1996-1997

Technology Innovator and Patent Leader

- Created and chaired Nortel Networks' EDN Patent Committee
- Facilitated continuous stream of innovative ideas and their conversion into intellectual property rights
- Developed intellectual property assets through invention and analysis of existing technology portfolios

Aptel Communications, Netanya, Israel 1994-1995

Software Engineer, Team Leader

Start-up company focused on mobile wireless CDMA spread spectrum PCN/PCS

- Developed mobile wireless device using an unlicensed band, Direct Sequence Spread Spectrum (DSSS)
- Designed and managed a personal communication network (PCN) and personal communication system (PCS), the precursors of short text messages (SMS)
- Responsible for the design and development of network software products
- Developed software network communications mainly in C/C++
- Brought two-way paging product from concept to development

Scitex Ltd., Herzeliya, Israel 1990-1993

Software Engineer, Team Leader

Software and hardware company acquired by Hewlett Packard (HP)

- Developed system and network communications mainly in C/C++
- Invented Parallel SIMD Architecture
- Participated in the Technology Innovation group

Shalev, Ramat-HaSharon, Israel 1987-1990

Start-up company

Software Engineer

- Developed real-time software and algorithms mainly in C/C++ and Pascal

PROFESSIONAL ASSOCIATIONS

- IEEE Senior Member
- IEEE CNSV co-chair Intellectual Property SIG (2013)
- President Next Step Toastmasters (an advanced TM club in the Silicon Valley) (2013)
- Technical Co-Chair, IEEE Hot Interconnects 2005 at Stanford University
- Member, IEEE Communications Society (COMMSOC)
- Member, IEEE Computer Society
- Member, IEEE Systems, Man, and Cybernetics Society
- Member, IEEE-USA Intellectual Property Committee
- Member, ACM, ACM Special Interest Group on Data Communication (SIGCOM)
- Member, ACM Special Interest Group on Hypertext, Hypermedia and Web (SIGWEB)
- Member, IEEE Consultants' Network (CNSV)
- Global Member, Internet Society (ISOC)
- President Java Users Group – Silicon Valley Mountain View, CA, 1999-2000
- Toastmasters International

ADVISORY BOARDS

- Quixey – (present) search engine for wireless mobile apps
- Mytopia – mobile social games
- iLeverage – Israeli Innovations


















PROFESSIONAL AWARDS


















- Top Talent Award – Nortel
- Top Inventors Award – Nortel EDN
- Certified IEEE-WCET - Wireless Communications Engineering Technologies
- Toastmasters International - Competent Communicator (twice)
- Toastmasters International - Advanced Communicator Bronze
















Patents and Publications

(notan exhaustive list)

















Patents Issued:







- **US 8,688,796** Rating system for determining whether to accept or reject objection raised by user in social network 
- **US 8,572,303** Portable universal communication device 
- **US 8,553,859** Device and method for providing enhanced telephony 
- **US 8,548,131** Systems and methods for communicating with an interactive voice response system 
- **US 8,537,989** Device and method for providing enhanced telephony 
- **US 8,341,257** Grid proxy architecture for network resources 
- **US8,161,139** Method and apparatus for intelligent management of a network element 
- **US 8,146,090** Time-value curves to provide dynamic QoS for time sensitive file transfer 
- **US 8,078,708** Grid proxy architecture for network resources 
- **US 7,944,827** Content-aware dynamic network resource allocation 
- **US7,860,999** Distributed computation in network devices 
- **US 7,734,748** Method and apparatus for intelligent management of a network element 
- **US 7,710,871** Dynamic assignment of traffic classes to a priority queue in a packet forwarding device 
- **US 7,580,349** Content-aware dynamic network resource allocation 
- **US 7,433,941** Method and apparatus for accessing network information on a network device 
- **US 7,359,993** Method and apparatus for interfacing external resources with a network element 
- **US 7,313,608** Method and apparatus for using documents written in a markup language to access and configure network elements 












- **US 7,260,621** Object-oriented network management interface 
- **US 7,237,012** Method and apparatus for classifying Java remote method invocation transport traffic 
- **US 7,127,526** Method and apparatus for dynamically loading and managing software services on a network device 
- **US7,047,536** Method and apparatus for classifying remote procedure call transport traffic 
- **US7,039,724** Programmable command-line interface API for managing operation of a network device 
- **US6,976,054** Method and system for accessing low-level resources in a network device 
- **US6,970,943** Routing architecture including a compute plane configured for high-speed processing of packets to provide application layer support 
- **US6,950,932** Security association mediator for Java-enabled devices 
- **US6,850,989** Method and apparatus for automatically configuring a network switch 
- **US6,845,397** Interface method and system for accessing inner layers of a network protocol 
- **US6,842,781** Download and processing of a network management application on a network device 
- **US6,772,205** Executing applications on a target network device using a proxy network device 
- **US6,564,325** Method of and apparatus for providing multi-level security access to system 
- **US6,175,868** Method and apparatus for automatically configuring a network switch 
- **US6,170,015** Network apparatus with Java co-processor 
- **US 8,619,793** Dynamic assignment of traffic classes to a priority queue in a packet forwarding device 
- **US 8687,777** Systems and methods for visual presentation and selection of IVR menu 

- **US 8,681,951** Systems and methods for visual presentation and selection of IVR menu 
- **US 8,625,756** Systems and methods for visual presentation and selection of IVR menu 
- **US 8,594,280** Systems and methods for visual presentation and selection of IVR menu 
- **US 8,548,135** Systems and methods for visual presentation and selection of IVR menu 
- **US 8,406,388** Systems and methods for visual presentation and selection of IVR menu 
- **US 8,345,835** Systems and methods for visual presentation and selection of IVR menu 
- **US 8,223,931** Systems and methods for visual presentation and selection of IVR menu 
- **US 8,160,215** Systems and methods for visual presentation and selection of IVR menu 
- **US 8,155,280** Systems and methods for visual presentation and selection of IVR menu 
- **US 8,054,952** Systems and methods for visual presentation and selection of IVR menu 
- **US 8,000,454** Systems and methods for visual presentation and selection of IVR menu 
- **EP 1,905,211** Technique for authenticating network users 
- **EP 1,142,213** Dynamic assignment of traffic classes to a priority queue in a packet forwarding device 
- **EP 1,671,460** Method and apparatus for scheduling resources on a switched underlay network 
- **CA 2,358,525** Dynamic assignment of traffic classes to a priority queue in a packet forwarding device 

Patent Applications Published and Pending:

- **US 20140105025** Dynamic Assignment of Traffic Classes to a Priority Queue in a Packet Forwarding Device 
- **US 20140105012** Dynamic Assignment of Traffic Classes to a Priority Queue in a Packet Forwarding Device 
- **US 20140012991** Grid Proxy Architecture for Network Resources 
- **US 20130080898** Systems and Methods for Electronic Communications 
- **US 20130022191** Systems and Methods for Visual Presentation and Selection of IVR Menu 
- **US 20130022183** Systems and Methods for Visual Presentation and Selection of IVR Menu 
- **US 20130022181** Systems and Methods for Visual Presentation and Selection of IVR Menu 
- **US 20120180059** Time-Value Curves to Provide Dynamic QOS for Time Sensitive File Transfers 
- **US 20120063574** Systems and Methods for Visual Presentation and Selection of IVR Menu 
- **US 20110225330** Portable Universal Communication Device 
- **US 20100220616** Optimizing Network Connections 
- **US 20100217854** Method and Apparatus for Intelligent Management of a Network Element 
- **US 20100146492** Translation of Programming Code 
- **US 20100146112** Efficient Communication Techniques 
- **US 20100146111** Efficient Communication in a Network 
- **US 20090313613** Methods and Apparatus for Automatic Translation of a Computer Program Language Code 

- **US 20090313004** Platform-Independent Application Development Framework 
- **US 20090279562** Content-aware dynamic network resource allocation 
- **US 20080040630** Time-Value Curves to Provide Dynamic QoS for Time Sensitive File Transfers 
- **US 20070169171** Technique for authenticating network users 
- **US 20060123481** Method and apparatus for network immunization 
- **US 20060075042** Extensible Resource Messaging Between User Applications and Network Elements in a Communication Network 

- **US 20050083960** Method and Apparatus for Transporting Parcels of Data Using Network Elements with Network Element Storage 
- **US 20050076339** Method and Apparatus for Automated Negotiation for Resources on a Switched Underlay Network 
- **US 20050076336** Method and Apparatus for Scheduling Resources on a Switched Underlay Network 
- **US 20050076173** Method And Apparatus for Preconditioning Data to Be Transferred on a Switched Underlay Network 
- **US 20050076099** Method and Apparatus for Live Streaming Media Replication in a Communication Network 
- **US 20050074529** Method and apparatus for transporting visualization information on a switched underlay network 
- **US 20040076161** Dynamic Assignment of Traffic Classes to a Priority Queue in a Packet Forwarding Device 
- **US 20020021701** Dynamic Assignment of Traffic Classes to a Priority Queue in a Packet Forwarding Device 
- **WO 2007/008976** Technique for Authenticating Network Users 
- **WO 2006/063052** Method and apparatus for network immunization 
- **WO2000/0054460** Method and apparatus for accessing network information on a network device 

Publications

(not an exhaustive list)

- “Communications Architecture in Support of Grid Computing”, Tal Lavian, Scholar's Press 2013 ISBN 978-3-639-51098-0.
- “Applications Drive Secure Lightpath Creation across Heterogeneous Domains, Feature Topic Optical Control Planes for Grid Networks: Opportunities, Challenges and the Vision.” Gommans L.; Van Oudenaarde B.; Dijkstra F.; De Laat C.; Lavian T.; Monga I.; Taal A.; Travostino F.; Wan A.; *IEEE Communications Magazine*, vol. 44, no. 3, March 2006, pp. 100-106.
- *Lambda Data Grid: Communications Architecture in Support of Grid Computing*. Tal I. Lavian, Randy H. Katz; Doctoral Thesis, University of California at Berkeley. January 2006.
- “Information Switching Networks.” Hoang D.B.; T. Lavian; *The 4th Workshop on the Internet, Telecommunications and Signal Processing, WITSP2005*, December 19-21, 2005, Sunshine Coast, Australia.
- “Impact of Grid Computing on Network Operators and HW Vendors.” Allcock B.; Arnaud B.; Lavian T.; Papadopoulos P.B.; Hasan M.Z.; Kaplow W.; *IEEE Hot Interconnects at Stanford University 2005*, pp.89-90.
- *DWDM-RAM: A Data Intensive Grid Service Architecture Enabled by Dynamic Optical Networks*. Lavian T.; Mambretti J.; Cutrell D.; Cohen H.J; Merrill S.; Durairaj R.; Daspit P.; Monga I.; Naiksatam S.; Figueira S.; Gutierrez D.; Hoang D.B., Travostino F.; *CCGRID 2004*, pp. 762-764.
- *DWDM-RAM: An Architecture for Data Intensive Service Enabled by Next Generation Dynamic Optical Networks*. Hoang D.B.; Cohen H.; Cutrell D.; Figueira S.; Lavian T.; Mambretti J.; Monga I.; Naiksatam S.; Travostino F.; *Proceedings IEEE Globecom 2004, Workshop on High-Performance Global Grid Networks*, Houston, 29 Nov. to 3 Dec. 2004, pp.400-409.
- *Implementation of a Quality of Service Feedback Control Loop on Programmable Routers*. Nguyen C.; Hoang D.B.; Zhao, I.L.; Lavian, T.; *Proceedings, 12th IEEE International Conference on Networks 2004. (ICON 2004) Singapore, Volume 2, 16-19 Nov. 2004*, pp.578-582.
- *A Platform for Large-Scale Grid Data Service on Dynamic High-Performance Networks*. Lavian T.; Hoang D.B.; Mambretti J.; Figueira S.; Naiksatam S.; Kaushil N.; Monga I.; Durairaj R.; Cutrell D.; Merrill S.; Cohen H.; Daspit P.; Travostino F.; *GridNets 2004, San Jose, CA., October 2004*.
- *DWDM-RAM: Enabling Grid Services with Dynamic Optical Networks*. Figueira S.; Naiksatam S.; Cohen H.; Cutrell D.; Daspit, P.; Gutierrez D.; Hoang D. B.; Lavian T.; Mambretti J.; Merrill S.; Travostino F.; *Proceedings, 4th IEEE/ACM International Symposium on Cluster Computing and the Grid, Chicago, USA, April 2004*, pp. 707-714.
- *DWDM-RAM: Enabling Grid Services with Dynamic Optical Networks*. Figueira S.; Naiksatam S.; Cohen H.; Cutrell D.; Gutierrez D.; Hoang D.B.; Lavian T.; Mambretti J.; Merrill S.; Travostino F.; *4th IEEE/ACM International Symposium on Cluster Computing and the Grid, Chicago, USA, April 2004*.
- *An Extensible, Programmable, Commercial-Grade Platform for Internet Service Architecture*. Lavian T.; Hoang D.B.; Travostino F.; Wang P.Y.; Subramanian S.; Monga I.; *IEEE Transactions on Systems, Man, and*

Cybernetics on Technologies Promoting Computational Intelligence, Openness and Programmability in Networks and Internet Services Volume 34, Issue 1, Feb. 2004, pp.58-68.

- *DWDM-RAM: An Architecture for Data Intensive Service Enabled by Next Generation Dynamic Optical Networks*. Lavian T.; Cutrell D.; Mambretti J.; Weinberger J.; Gutierrez D.; Naiksatam S.; Figueira S.; Hoang D. B.; Supercomputing Conference, SC2003 Igniting Innovation, Phoenix, November 2003.
- *Edge Device Multi-Unicasting for Video Streaming*. Lavian T.; Wang P.; Durairaj R.; Hoang D.; Travostino F.; Telecommunications, 2003. ICT 2003. 10th International Conference on Telecommunications, Tahiti, Volume 2, 23 Feb.-1 March, 2003 pp. 1441-1447.
- *The SAHARA Model for Service Composition Across Multiple Providers*. Raman B.; Agarwal S.; Chen Y.; Caesar M.; Cui W.; Lai K.; Lavian T.; Machiraju S.; Mao Z. M.; Porter G.; Roscoe T.; Subramanian L.; Suzuki T.; Zhuang S.; Joseph A. D.; Katz Y.H.; Stoica I.; Proceedings of the First International Conference on Pervasive Computing. ACM Pervasive 2002, pp. 1-14.
- *Enabling Active Flow Manipulation in Silicon-Based Network Forwarding Engines*. Lavian T.; Wang P.; Travostino F.; Subramanian S.; Durairaj R.; Hoang D.B.; Sethaput V.; Culler D.; Proceeding of the Active Networks Conference and Exposition, 2002.(DANCE) 29-30 May 2002, pp. 65-76.
- *Practical Active Network Services within Content-Aware Gateways*. Subramanian S.; Wang P.; Durairaj R.; Rasimas J.; Travostino F.; Lavian T.; Hoang D.B.; Proceeding of the DARPA Active Networks Conference and Exposition, 2002.(DANCE) 29-30 May 2002, pp. 344-354.
- *Active Networking on a Programmable Network Platform*. Wang P.Y.; Lavian T.; Duncan R.; Jaeger R.; Fourth IEEE Conference on Open Architectures and Network Programming (OPENARCH), Anchorage, April 2002.
- *Intelligent Network Services through Active Flow Manipulation*. Lavian T.; Wang P.; Travostino F.; Subramanian S.; Hoang D.B.; Sethaput V.; IEEE Intelligent Networks 2001 Workshop (IN2001), Boston, May 2001.
- *Intelligent Network Services through Active Flow Manipulation*. Lavian T.; Wang P.; Travostino F.; Subramanian S.; Hoang D.B.; Sethaput V.; Intelligent Network Workshop, 2001 IEEE 6-9 May 2001, pp.73 - 82.
- *Enabling Active Flow Manipulation in Silicon-based Network Forwarding Engine*. Lavian, T.; Wang, P.; Travostino, F.; Subramanian S.; Hoang D.B.; Sethaput V.; Culler D.; Journal of Communications and Networks, March 2001, pp.78-87.
- *Active Networking on a Programmable Networking Platform*. Lavian T.; Wang P.Y.; IEEE Open Architectures and Network Programming, 2001, pp. 95-103.
- *Enabling Active Networks Services on a Gigabit Routing Switch*. Wang P.; Jaeger R.; Duncan R.; Lavian T.; Travostino F.; 2nd Workshop on Active Middleware Services, 2000.

- *Dynamic Classification in Silicon-Based Forwarding Engine Environments.* Jaeger R.; Duncan R.; Travostino F.; Lavian T.; Hollingsworth J.; Selected Papers. 10th IEEE Workshop on Metropolitan Area and Local Networks, 1999. 21-24 Nov. 1999, pp.103-109.
- *Open Programmable Architecture for Java-Enabled Network Devices.* Lavian, T.; Jaeger, R. F.; Hollingsworth, J. K.; IEEE Hot Interconnects Stanford University, August 1999, pp. 265-277.
- *Open Java SNMP MIB API.* Rob Duncan, Tal Lavian, Roy Lee, Jason Zhou, Bay Architecture Lab Technical Report TR98-038, December 1998.
- *Java-Based Open Service Interface Architecture.* Lavian T.; Lau S.; BAL TR98-010 Bay Architecture Lab Technical Report, March 1998.
- *Parallel SIMD Architecture for Color Image Processing.* Lavian T. Tel – Aviv University, Tel – Aviv, Israel, November 1995.
- *Grid Network Services, Draft-ggf-ghpn-netservices-1.0.* George Clapp, Tiziana Ferrari, Doan B. Hoang, Gigi Karmous-Edwards, Tal Lavian, Mark J. Leese, Paul Mealor, Inder Monga, Volker Sander, Franco Travostino, Global Grid Forum(GGF).
- *Project DRAC: Creating an applications-aware network.* Travostino F.; Keates R.; Lavian T.; Monga I.; Schofield B.; Nortel Technical Journal, February 2005, pp. 23-26.
- *Optical Network Infrastructure for Grid, Draft-ggf-ghpn-opticalnets-1.* Dimitra Simeonidou, Reza Nejabati, Bill St. Arnaud, Micah Beck, Peter Clarke, Doan B. Hoang, David Hutchison, Gigi Karmous-Edwards, Tal Lavian, Jason Leigh, Joe Mambretti, Volker Sander, John Strand, Franco Travostino, Global Grid Forum(GGF) GHPN Standard GFD-I.036 August 2004.
- *Popeye - Using Fine-grained Network Access Control to Support Mobile Users and Protect Intranet Hosts.* Mike Chen, Barbara Hohlt, Tal Lavian, December 2000.

Presentations and Talks

(not an exhaustive list)

- Lambda Data Grid: An Agile Optical Platform for Grid Computing and Data-intensive Applications.
- Web Services and OGSA
- WINER Workflow Integrated Network Resource Orchestration.
- Technology & Society.
- Abundant Bandwidth and how it affects us?
- Active Content Networking(ACN).
- DWDM-RAM:Enabling Grid Services with Dynamic Optical Networks .
- Application-engaged Dynamic Orchestration of Optical Network Resources .
- A Platform for Data Intensive Services Enabled by Next Generation Dynamic Optical Networks .
- Optical Networks.
- Grid Optical Network Service Architecture for Data Intensive Applications.
- Optical Networking & DWDM.
- OptiCal Inc.
- OptiCal & LUMOS Networks.
- Optical Networking Services.
- Business Models for Dynamically Provisioned Optical Networks.
- Business Model Concepts for Dynamically Provisioned Optical Networks.
- Optical Networks Infrastructure.
- Research Challenges in agile optical networks.
- Services and Applications' infrastructure for agile optical networks.
- Impact on Society.
- TeraGrid Communication and Computation.
- Unified Device Management via Java-enabled Network Devices.
- Active Network Node in Silicon-Based L3 Gigabit Routing Switch.
- Active Nets Technology Transfer through High-Performance Network Devices.
- Programmable Network Node: Applications.
- Open Innovation via Java-enabled Network Devices.
- Practical Considerations for Deploying a Java Active Networking Platform.
- Open Java-Based Intelligent Agent Architecture for Adaptive Networking Devices.
- Java SNMP Oplet.
- Open Distributed Networking Intelligence: A New Java Paradigm.
- Open Programmability.
- Active Networking On A Programmable Networking Platform.
- Open Networking through Programmability.

- Open Programmable Architecture for Java-enabled Network Devices.
- Integrating Active Networking and Commercial-Grade Routing Platforms.
- Programmable Network Devices.
- To be smart or not to be?