JACOB SHARONY, PhD, MBA
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Seasoned professional with over 35 years experience and expertise in information communications technologies (ICT), wireless networks, mobile devices/applications, data capture and sensing; visionary, creative and innovative with strong technology and business skills.

EXPERIENCE

MOBIUS CONSULTING, Huntington Station, NY **2004 –**
Founder, Principal Consultant

- Professional consulting services in mobile wireless strategy, technologies, systems and applications.
- "Trusted Advisor" role facing large clients in telecom, vertical enterprises and government, building trust and relationships.
- Expertise includes WiFi (802.11n/ac/ax/be), 4G LTE and 5G, WiMAX, picocell/femtocell, DAS, mesh networking, Internet of Things (IoT), M2M, RFID, RTLS, smart antennas, OFDM/OFDMA, MU-MIMO/beamforming, cloud computing, mobile crowd sourcing/sensing, enterprise mobility, security protocols, mobile embedded devices, device management, mobile applications/services, LBS, VoIP, video streaming, Zigbee, Bluetooth, sensor networks, RTLS, smart grid, m-health, m-learning, smart home networking.
- System and network protocol analysis, modeling and simulations of wireless systems (e.g., WiFi, LTE) for network performance assessment and optimization.
- Participated in a lead role in several medium-large projects in various vertical, enterprise and government/military markets, e.g., smart grid, mobile health, WiFi and 4G deployments.
- Selected consulting engagements are listed below: Lattice Semiconductor, SiBEAM, Powerwave Technologies, Time Warner Cable, and Corning-MobileAccess.

COLUMBIA UNIVERSITY, New York, NY **2010 –**
Adjunct Professor

- Professor of Electrical Engineering. Teaching graduate courses on advanced wireless technologies: mmWave Wireless Communications and Applications for 5G/6G, Wireless Sensing (RFID, RTLS, M2M communications, smart grid/energy, smart infrastructure, intelligent transportation, m-health).

LATTICE SEMICONDUCTOR, Sunnyvale, CA **2014 – 2016**
CTO Office Senior Advisor
Developing 5G solutions using mmWave and Phased Array Antenna technologies. Applications include 'wireless fiber' backhaul/front-haul, connected cars, in-home connectivity.

SIBEAM, Silicon Valley **2014 – 2016**
Technology Strategy Senior Consultant
Developing intelligent millimeter wave (60 GHz) technologies for wireless communications (802.11ad) and fixed access solutions for 5G.

POWERWAVE TECHNOLOGIES, Santa Ana, CA **2011 – 2013**
CTO Office Senior Principal Consultant / VP Innovation

- Leading innovation, strategy and development of HetNets, DAS and small cells (picocell) solutions using 4G LTE and WiFi technologies to enhance coverage and capacity of wireless network infrastructure.

CENTER OF EXELLENCE IN WIRELESS & IT, SUNY, Stony Brook, NY **2006 – 2010**
Director, Network Technologies Research Division

- Leading network technologies research, development and commercialization efforts
- Industry liaison, working on smart energy, wireless healthcare and intelligent transportation solutions.
- Deployed mobile WiMAX pico/femto solution as part of the 4G-campus initiative.
- Key contributor to the Long Island Broadband Wireless Access Initiative using WiFi and 4G.

TIME WARNER CABLE, Stamford, CT **2007 –2008**

Wireless Strategy & Development Senior Consultant

- Worked on a large wireless project involving WiFi, WiMAX and 3G with advanced mobile devices.
- Developed concept and product requirements documents, architecture and RF design, and test plans.
- Supported the business development group on femtocells models, MVNO's models and services, etc.

MOBILE-ACCESS (Acquired by Corning), Vienna, VA **2006 –2008**

CTO Office DAS Strategy & Development Senior Consultant

- Worked with the CTO and senior engineers to develop WiFi DAS systems.
- Developed detailed analysis and novel method to support MIMO (802.11n) in DAS systems.

MOTOROLA (formerly Symbol Technologies), Holtsville, NY **1997 – 2005**

Senior Director, Technology Strategy and Development 2003 – 2005

- Served as "the eyes of the company" – Charter was to identify and evaluate emerging/disruptive technologies, and conduct technology/business due diligence of possible partners/acquisitions. Team leader.
- Guided the company technology roadmap by generating Technology Position Statements (TPS). Selected topics include: 802.11a/b/g migration strategy, 802.11e (QoS), Broadband Wireless Access - 802.16d/e fixed and mobile WiMAX, mesh networks, RFID, RTLS, and MIMO. These TPS were fact based and relied on results obtained through modeling, analysis and simulations.
- Explored a new family of products based on multi-point MIMO architecture in mesh wireless networks.
- Investigated VoIP capacity in 802.11a/b/g networks and initiated work on admission control algorithms/policies.
- Researched and developed new mobile applications delivering multimedia-rich content to heterogeneous networked mobile devices.
- Developed strategic alliances and led technology initiatives with technology/business partners.
- Participated actively in IEEE 802.11, 802.15 and 802.16 standards meetings.
- Awarded several patents.

Senior Director, Research and Development 1997 – 2003

- Initiated and led several R&D programs in wireless LAN technologies: intelligent access point, reliable multicast video streaming, mobile device management/security and spatial wireless switching.
- Conceived, investigated and developed a novel wireless switching architecture based on MIMO technology.
- Conducted innovative research in WLAN QoS, Bluetooth interference mitigation, multicast video streaming, mobile security, RFID, RTLS - location tracking (RSSI/TDOA), VoIP and smart antennas.
- Participated in strategic planning and impacted the technology/business direction of the company.
- Awarded several patents.

BAE SYSTEMS, Greenlawn, NY **1994 – 1997**

Research Scientist

- Led the advanced mobile networking group.
- Developed tactical mesh-based wireless network systems for DoD.
- Worked on advanced antenna techniques including beam steering/switching.
- Awarded several patents.

NEC RESEARCH INSTITUTE, Princeton, NJ **1992 – 1994**

Research Fellow

- Worked on optical interconnects for parallel processing.
- Investigated multi-dimensional switches using wavelength, space and time.
- Designed a wavelength router/switch using free-space optics.

IBM RESEARCH CENTER, Hawthorne, NY **1990 – 1992**

Research Associate

- Developed and prototyped a gigabit switch.
- Built a testbed of multi-wavelength optical network.
- Developed algorithms for WDMA using AO tunable filters.

ISRAEL PRODUCT RESEARCH CO. (ISPRA) LTD., Herzliya, Israel **1984 – 1989**
Head of Fiber-optics Systems Engineering

- Pioneered security products using fiber optic sensors.
- Conducted research & development in fiber optic sensors.
- Co-developed and deployed a large fiber optic data communications network.

EDUCATION

COLUMBIA UNIVERSITY, New York, NY

- Ph.D., Electrical Engineering, 1993.
- M.Phil, Electrical Engineering, 1991.

TEL AVIV UNIVERSITY, Tel Aviv, Israel

- MBA, Recanati Business School, 1989.
- MSc., Electrical Engineering, 1984.
- BSc., magna cum laude, Electrical Engineering, 1979.

PUBLICATIONS / PATENTS / OTHER

- Numerous publications in proceedings and conference papers.
- Numerous US and international patents issued.
- Served on several government agencies expert panels (NSF, NIH).
- IEEE Life Senior Member.
- Featured speaker on several industry sponsored webinars.
- Served as an expert witness/consultant in District Court, IPR, PGR, ITC, FRAND, PCA, AAA cases.

COURSES TAUGHT

- Introduction to Auto ID and Data Capture (AIDC) Technologies (State University NY, Stony Brook)
- Wireless Sensing Networks (Columbia University)
- mmWave Communications and Applications for 5G/6G (Columbia University)

RECENT EXPERT WITNESS CONSULTING[1]

- 2025: Brightsky LLC v. Plover Bay Technologies LTD. et al. (Litigation)
- 2025: Samsung Electronics v. KPN (IPR)
- 2025: Pegasus Wireless v. Verizon Wireless et al. (Litigation)
- 2024: Cisco Systems Inc. v. Video Solutions (IPR)
- 2024: S.M.R Innovations LTD and Y.M.R Tech LTD v. Apple (Litigation)
- 2024: Zebra Technologies v. OnAsset Intelligence (Litigation)
- 2023: Varia Holdings v. Apple (Litigation)
- 2023: Maxell Ltd. v. Samsung Electronics (Litigation)
- 2023: Ericsson Inc. and Oracle Corporation v. Telecom Network Solutions (IPR)
- 2023: OZMO Licensing v. Dell Technologies (Litigation/IPR)
- 2022: Howlink Global v. AT&T (Litigation)
- 2022: Cleveland Medical Devices v. ResMed Corp (Litigation/IPR)
- 2022: Lone Star Systems v. Zebra Technologies (Litigation/IPR)
- 2022: Telecom Network Solutions v. AT&T, Verizon, and T-Mobile (Litigation/IPR)
- 2021: BillJCo v. Apple (Litigation/IPR)
- 2021: BillJCo v. Cisco Systems et al. (Litigation)
- 2021: Zebra Technologies v. OnAsset Intelligence (ITC)
- 2021: CellSpin Soft v. Under Armour (Litigation)

[1] Represented parties are underlined.

- 2021: CellSpin Soft v. Nike (Litigation)
- 2021: Intellectual Ventures v. Hewlett Packard Enterprise (Litigation/IPR)
- 2021: AEGIS v. Hisense (Litigation)
- 2020: Soter Technologies v. IP Video Corp. et al (Litigation)
- 2020: Intellectual Tech v. Zebra Technologies (Litigation)
- 2020: Uniloc v. Apple (Litigation)
- 2020: American Patents v. Juniper Networks (Litigation)
- 2020: Proxicom Wireless v. Target Corporation (Litigation)
- 2020: Sol IP v. AT&T et al. (Litigation)
- 2019: Cellular Evolution v. AT&T et al. (Litigation)
- 2019: Philips v. HTC (Litigation, UK)
- 2019: Ericsson v. Tishman Interiors (AAA Arbitration)
- 2019: Uniloc v. Samsung, Huawei (Litigation)
- 2018: Intel et al. v. Hera Wireless (IPR)
- 2018: Deutsche Telecom v. The Republic of India (UNCITRAL Arbitration, Paris Tribunal)
- 2017: Devas v. The Republic of India (UNCITRAL Arbitration, The Hague Tribunal)
- 2017: RPX Corp. et al. v. Iridescent Networks (IPR)
- 2017: Intellectual Ventures v. FedEx (Litigation)
- 2017: FedEx v. Intellectual Ventures (IPR)

PREVIOUS TESTIMONY

- *Deutsche Telekom AG v. The Republic of India*, PCA Case No. 2014-10 (UNCITRAL) Expert Reports + Arbitration Hearing.
- *Devas (Mauritius) Ltd. et al v. The Republic of India*, PCA Case No. 2013-09 (UNCITRAL) Expert Reports + Arbitration Hearing.
- *Philips v. HTC*, Claim HP-2015-000063 (UK) Expert Report.
- *Ruckus Wireless, Inc. et al v. Hera Wireless S.A.*, Case IPR2018-01419 (PTAB) Expert Declaration.
- *Ruckus Wireless, Inc. et al v. Hera Wireless S.A.*, Case IPR2018-01736 (PTAB) Expert Declaration.
- *Intel Corporation v. Hera Wireless S.A.*, Case IPR2018-01702 (PTAB) Expert Declaration.
- *Ruckus Wireless, Inc. et al v. Hera Wireless S.A.*, Case IPR2018-01418 (PTAB) Expert Declaration.
- *Ruckus Wireless, Inc. et al v. Hera Wireless S.A.*, Case IPR2018-01739 (PTAB) Expert Declaration.
- *Intel Corporation et al v. Hera Wireless S.A.*, Case IPR2018-01700 (PTAB) Expert Declaration.
- *Intel Corporation et al v. Hera Wireless S.A.*, Case IPR2018-01701 (PTAB) Expert Declaration.
- *Ruckus Wireless, Inc. et al v. Hera Wireless S.A.*, Case IPR2018-01732 (PTAB) Expert Declaration.
- *Ruckus Wireless, Inc. et al v. Hera Wireless S.A.*, Case IPR2018-01737 (PTAB) Expert Declaration.
- *Intel Corporation et al v. Hera Wireless S.A.*, Case IPR2018-01686 (PTAB) Expert Declaration.
- *Ruckus Wireless, Inc. et al v. Hera Wireless S.A.*, Case IPR2018-01420 (PTAB) Expert Declaration.
- *Intel Corporation et al v. Hera Wireless S.A.*, Case IPR2018-01687 (PTAB) Expert Declaration.
- *Ruckus Wireless, Inc. et al v. Hera Wireless S.A.*, Case IPR2018-01738 (PTAB) Expert Declaration.
- *RPX Corporation et al v. Iridescent Networks, Inc. (McEwen, Kathy, inventor)*, Case IPR2018-00254 (PTAB) Expert Declaration.
- *RPX Corporation et al v. Iridescent Networks, Inc. (McEwen, Kathy, inventor)*, Case IPR2017-01661 (PTAB) Expert Declaration.
- *RPX Corporation et al v. Iridescent Networks, Inc.*, Case IPR2017-01662 (PTAB) Expert Declaration.
- *Intellectual Ventures II LLC v. FedEx Corp.*, (2:16-cv-00980), Expert Report + Deposition + Trial (Texas Eastern District Court).
- *FedEx Corp. v. Intellectual Ventures II LLC,* Case IPR2017-00729 (PTAB) Expert Declaration.
- *FedEx Corp. v. Intellectual Ventures II LLC,* Case IPR2017-02030 (PTAB) Expert Declaration.
- *FedEx Corp. v. Intellectual Ventures II LLC,* Case IPR2017-00741 (PTAB) Expert Declaration.
- *Uniloc USA, Inc., Uniloc Luxembourg, S.A., and Uniloc 2017 LLC (Uniloc) v. Samsung*, (2:18-cv-00042) Expert Report + Deposition.
- *Uniloc USA, Inc., Uniloc Luxembourg, S.A., and Uniloc 2017 LLC (Uniloc) v. Samsung*, (2:18-cv-00044) Expert Report + Deposition.

- *SoL IP v. AT&T et al.*, (2:18-cv-00526), Expert Report + Deposition.
- *Juniper Networks v. American Patents*, Case IPR2020-01114 (PTAB) Expert Declaration.
- *Juniper Networks v. American Patents*, Case IPR2020-01115 (PTAB) Expert Declaration.
- *Intellectual Tech v. Zebra Technologies*, (6:19-cv-00628) Expert Declaration.
- *Aegis 11 S.A. v. Belkin Int'l, Inc*., Civ. Nos. 19-1161-RGA, -1162-RGA, and 1163-RGA Expert Declaration.
- *Aegis 11 S.A. v. TTE Tech., Inc*., Civ. No. 19-1165-RGA Expert Declaration
- *Aegis 11 S.A. v. Funai Electric Co*., Civ. No. 20-03890
- *AEGIS v. Hisense*, (1:20-cv-03891) Expert Declaration.
- *Soter Technologies, LLC v. IP Video Corp. et al*, SDNY 20-cv-05007(LJL) Expert Declaration.
- *Soter Technologies, LLC v. IP Video Corp. et al*, EDNY 2:20-cv-02989(GRB)(AKT) Expert Declaration + Deposition.
- *Cellspin Soft, Inc. v. Nike, Inc.*, NDCA 4:17-cv-05931YGR Expert Report.
- *Cellspin Soft, Inc. v. Under Armour, Inc.*, NDCA 4:17-cv-05932YGR Expert Report.
- *BillJCo, LLC v. Cisco Systems, Inc. et al.*, EDTX 2:21-cv-181, 183-JRG Expert Reports + Deposition.
- *BillJCo, LLC v. Apple, Inc.*, WDTX 6:21-cv-528-ADA Expert Declaration.
- *Zebra Technologies v. OnAsset Intelligence, Inc.*, ITC Washington DC, Investigation No. 337-TA-1278 Expert Reports on Infringement & Validity + Deposition + Trial/Hearing.
- *Intellectual Tech LLC v. Zebra Technologies*, WDTX 6:19-cv-00628-ADA Expert Reports + Deposition.
- *Hewlett Packard Enterprise v. Intellectual Ventures II LLC*, Case IPR2021-01377 (PTAB) Expert Declaration + Deposition.
- *Hewlett Packard Enterprise v. Intellectual Ventures II LLC*, Case IPR2022-00096 (PTAB) Expert Declaration + Deposition.
- *Ericsson Inc. and Oracle Corporation v. Telecom Network Solutions LLC*, Case IPR2022-1572 (PTAB) Expert Declaration.
- *Ericsson Inc. and Oracle Corporation v. Telecom Network Solutions LLC*, Case IPR2022-1573 (PTAB) Expert Declaration.
- *Zebra Technologies v. Lone Star Systems*, Case IPR2022-01374-01377 (PTAB) Expert Declarations + Deposition.
- *Howlink Global v. AT&T*, EDTX 2:22-cv-00040-JRG, Expert Report + Deposition.
- *Unified Patents LLC v. OZMO Licensing LLC*, Case IPR2023-02060 (PTAB) Expert Declaration.
- *Cisco Systems Inc. v. Video Solutions PTE LTD.*, Case IPR2024-00194 (PTAB) Expert Declarations + Deposition.
- *Varia Holdings v. Apple*, EDNY 1:23-cv-07477-RPK-VMS, Expert Declarations + Depositions.
- *Unified Patents v. BSD Crown*, Ex Parte Reexamination of U.S. Patent No. 6,389,473, Expert Declaration.
- *Zebra Technologies v. OnAsset Intelligence,* NDTX 3:21-cv-00055-K *Inc.*, Expert Report + Deposition.
- *ResMed Corp v. Cleveland Medical Devices*, Case IPR2023-00565 (PTAB) Expert Declaration + Deposition.
- *Cleveland Medical Devices v. ResMed Corp*, DE 1:22-cv-00794-GBW, Expert Declaration.
- *S.M.R Innovations LTD and Y.M.R Tech LTD v. Apple*, WDTX 6:23-cv-479-ADA, Expert Declaration.
- *Samsung Electronics, LTD v. Maxell, LTD*, Case IPR2024-00735/00777 (PTAB) Expert Declarations.
- *Samsung Electronics, Inc. v. KPN N.V.*, Case IPR2025-00503/00512 (PTAB) Expert Declarations.
- *Pegasus Wireless Innovation v. Verizon Communications et al.,* EDTX 2:23-cv-00640-JRG, Expert Report + Deposition.
- *Brightsky LLC v. Plover Bay Technologies LTD. et al.,* SDFL 9:25-cv-80704, Expert Declaration.
- *Ericsson, Nokia, AT&T, Verizon, Google, and T-Mobile, v. Pegasus Wireless Innovation*, IPR2025-00083 (PTAB) Expert Declaration + Deposition.

ADDENDUM

Publications

- J. Sharony, "Understanding Het-Nets, Antennas and other Advanced Techniques in LTE-Advanced; Advanced Systems and Techniques," LTE-Advanced: Understanding 3GPP Release 10 and Beyond – Workshop presented by 4G Americas, Marina del Rey, CA, October 2012.
- J. Sharony, V. Ramanna, "Self Learning Real Time Location Tracking in Wireless Sensor Networks," Accepted to WiCOM, The 5th International Conference on Wireless Communications, Networking and Mobile Computing, China, 2009.
- J. Sharony, "Introduction to Wireless MIMO – Theory and Applications", IEEE LI, November 2006.
- J. Sharony, M. Sen, "Bandwidth management in 802.11 wireless LANs," ICC 2004 - IEEE International Conference on Communications, vol. 27, no. 1, Paris, France, June 2004 pp. 3837-3843.
- L-T.Cheok, J.Sharony and A.Eleftheriadis, "A SMIL-enabled Mobile Shopping Mall Application," SMILEurope Conference, Paris, France, February 2003.
- L-T.Cheok, J.Sharony and A.Eleftheriadis, "Symshop: A Mobile Shopping Mall Application," International Conference on Mobile and Ubiquitous Multimedia (MUM), Oulu, Finland, December 2002.
- J. Sharony, "Effective Throughput of 802.11 Wireless LAN with Interference from Nearby Cells," Proc. of Mobile Multimedia Communications (MoMuC), 7th International Workshop, Tokyo, Japan, 2000.
- J. Sharony, "An Architecture for Mobile Radio Networks With Dynamically Changing Topology Using Virtual Subnets," Mobile Networks & Applications, vol. 1, no. 1, 1996 pp. 75-86.
- J. Sharony, "A Multi-Star Optical Backbone Network Suitable for Distributed Microcellular Wireless Systems," Proc. of IEEE GLOBECOM'96, London, UK, November, 1996.
- J. Sharony, A. C. Sevdinoglou, "On-line distributed TDMA/FDMA/CDMA Link Assignment in Mobile Radio Networks with Flexible Directivity," Hazeltine Technical Bulletin, 1996.
- Y. Li, T. Wang, Z. G. Pan, J. Sharony, "Minimum-Complexity Free-Space Optical Nonblocking Networks for Multicast Interconnect Applications," Optical Letters, vol. 19, no. 8, April 1994 pp. 515-517.
- Y. Li, T. Wang, Z. G. Pan, J. Sharony, "Complexity-Minimized Optical Non-Blocking Interconnects for Multicast Computer Communications," Proceedings of the SPIE - Advances in Optical Information Processing VI 2240:192-204, 1994.
- Y. Li, T. Wang, J. Sharony, "Free-Space Optical Interconnects Using Connectivity-Enhanced Mesh-Based Networks," Optical Engineering, vol. 33, no. 5, 1994 pp. 1532-1542.
- Y. Li, T. Wang, Z. G. Pan, J. Sharony, "Free-Space Optical Implementations of Connectivity-Enhanced Mesh-Based Networks," Proceedings of the SPIE - International Society for Optical Engineering Optoelectronic Interconnects II, vol. 2153 pp. 57-68, 1994.
- J. Sharony, T. Stern, Y. Li, "The universality of multidimensional switching networks," IEEE/ACM Transactions on Networking, vol. 2, no. 6, December 1994 pp. 602-612.
- J. Sharony, "Broadcast and switch – A new class of WDM networks for high switching-speed, high connectivity applications," in Photonics in Switching Topical Meeting'93 Digest, Palm Springs, CA, Mar. 1993.
- J. Sharony, K. W. Cheung, T. E. Stern, "The Wavelength Dilation Concept in Lightwave Networks – Implementation and System Considerations," Journal of Lightwave Technology, vol. 11, no. 5/6, May/June 1993 pp. 900-907.
- J. Sharony, "Architectures of Dynamically Reconfigurable Wavelength Routing/Switching Networks," Ph.D. Thesis, Columbia University, May 1993.
- J. Sharony, K. W. Cheung, T. E. Stern, "Wavelength Dilated Switches (WDS) – A New Class of Suppressed Crosstalk, Dynamic Wavelength-Routing Crossconnects," OFC'92, paper TuO3, San Jose, CA, Feb 1992.
- J. Sharony, C. Georgiou, "Wavelength Selective Optical Crossconnect," IBM Technical Disclosure Bulletin, vol. 34, no. 10A, March 1992.
- J. Sharony, S. Jiang, T. Stern, K. Cheung, "Wavelength Rearrangeable and Strictly Non-Blocking Networks," Electronics Letters, vol. 28, no. 2, March 1992 pp. 536-537.
- J. Sharony, K. W. Cheung, T. E. Stern, "The Wavelength Dilation Concept – Implementation and System Considerations," Proc. ICC'92, paper 330.3, Chicago, IL, June 1992.
- J. Sharony, K. W. Cheung, T. E. Stern, "Wavelength Dilated Switches (WDS) – A New Class of High Density, Suppressed Crosstalk, Dynamic Wavelength-Routing Crossconnects," IEEE Photonics Technology Letters, vol. 4, no. 8, August 1992 pp. 933-935.

- Y. Li, T. Jiang, J. Sharony, "Massively Parallel Free-Space Optical Clos Network Using Wavelength-Division Multiple Access," Electronics Letters, vol. 28, no.21, October 1992 pp. 2001-2002.
- J. Sharony, T. E. Stern, K. W. Cheung, "Extension of Classical Rearrangeable and Non-Blocking Networks to the Wavelength Dimension," Proc. of IEEE GLOBECOM'92, December, 1992.
- J. Sharony, "Bounds on Threshold Effects in Frequency Estimation," Master Thesis, Tel Aviv University, April 1984.

Issued U.S. Patents

- 10,200,924 - Small-cell gateway configured for multiple air interfaces
- 10,080,177 - Unlicensed spectrum offload architecture for small-cell base stations
- 10,028,188 - Location processing in small cells implementing multiple air interfaces
- 9,854,489 - Location processing in small cells implementing multiple air interfaces
- 9,807,657 - Small-cell gateway configured for multiple air interfaces
- 9,474,500 - Method and system for transfer of cardiac medical image data files
- 9,161,273 - Small cells implementing multiple air interfaces
- 9,148,835 - Small cells implementing multiple air interfaces
- 9,143,996 - Small cells implementing multiple air interfaces
- 9,125,121 - Small cells implementing multiple air interfaces
- 9,088,923 - Small cells implementing multiple air interfaces
- 9,014,702 - Wireless location processing in small cells implementing multiple air interfaces
- 7,827,610 - Wireless LAN intrusion detection based on location
- 7,778,649 - System and method for asset location in wireless networks
- 7,706,809 - RF tracking system and method
- 7,668,201 - Bandwidth management in wireless networks
- 7,596,388 - Sectorized wireless communication network operating under 802.11 specifications
- 7,426,383 - Wireless LAN intrusion detection based on location
- 7,373,154 - System and method for asset location in wireless networks
- 7,174,172 - System and method for asset location in wireless networks
- 7,164,929 - Method and apparatus for location tracking in a multi-path environment
- 7,069,024 - System and method for determining location of rogue wireless access point
- 7,039,358 - Coexistence techniques in wireless networks
- 7,019,663 - RF tracking system and method
- 6,990,587 - Cryptographic architecture for secure, private biometric identification
- 6,925,094 - System and method for wireless network channel management
- 6,853,293 - Wearable communication system
- 6,735,445 - System and method for medium access control in a wireless network
- 6,577,609 - Local addressing of mobile units in a WLAN with multicast packet addressing
- 6,411,608 - Method and apparatus for variable power control in wireless communications systems
- 5,953,143 - Multidimensional switching networks
- 5,742,593 - On-line distributed TDMA/FDMA/CDMA link assignment in mobile radio networks with flexible directivity
- 5,652,751 - Architecture for mobile radio networks with dynamically changing topology using virtual subnets
- 5,495,356 - Multidimensional switching networks
- 4,867,820 - Preparation of laminated structure containing an optical fiber
- 4,847,596 - Wallpaper comprising an optical fibre

Issued International Patents

- EP2974520 - Unlicensed spectrum offload architecture for small-cell base stations
- EP1906294 - Wearable communication system
- EP1851978 - System and method for asset location in wireless networks
- EP1678960 - System and method for determining location of rogue wireless access point
- EP0886981- An architecture for mobile radio networks with dynamically changing topology using virtual subnets
- EP1552632 - Apparatus and method for wireless network channel management

- EP1207654 - Coexistence techniques in a gateway between Bluetooth and WLAN wireless networks
- CA2599012 - Sectorized wireless communication network operating under 802.11 specifications
- AU2011202551 - Sectorized wireless communication network operating under 802.11 specifications
- CA2599406 - System and method for asset location in wireless networks
- AU783921 - Coexistence techniques in wireless networks

Published U.S. Patent Applications
- 20180220347 - SMALL-CELL GATEWAY CONFIGURED FOR MULTIPLE AIR INTERFACES
- 20170150412 - LOCATION PROCESSING IN SMALL CELLS IMPLEMENTING MULTIPLE AIR INTERFACES
- 20150382272 - UNLICENSED SPECTRUM OFFLOAD ARCHITECTURE FOR SMALL-CELL BASE STATIONS
- 20150365861 - SMALL-CELLS GATEWAY CONFIGURED FOR MULTIPLE AIR INTERFACES
- 20150257077 - LOCATION PROCESSING IN SMALL CELLS IMPLEMENTING MULTIPLE AIR INTERFACES
- 20130090119 - LOCATION PROCESSING IN SMALL CELLS IMPLEMENTING MULTIPLE AIR INTERFACES
- 20130089077 - SMALL CELLS IMPLEMENTING MULTIPLE AIR INTERFACES
- 20130089072 - SMALL CELLS IMPLEMENTING MULTIPLE AIR INTERFACES
- 20130089071 - SMALL CELLS IMPLEMENTING MULTIPLE AIR INTERFACES
- 20130089070 - SMALL CELLS IMPLEMENTING MULTIPLE AIR INTERFACES
- 20130089069 - SMALL CELLS IMPLEMENTING MULTIPLE AIR INTERFACES
- 20130084873 - SMALL CELLS IMPLEMENTING MULTIPLE AIR INTERFACES
- 20080201377 - Wireless LAN Intrusion Detection Based on Location
- 20080182593 - System and Method for Asset Location in Wireless Networks
- 20070105566 - System and method for asset location in wireless networks
- 20060221928 - Wireless device and method for wireless multiple access
- 20060221904 - Access point and method for wireless multiple access
- 20060221873 - System and method for wireless multiple access
- 20060211372 - Coexistence techniques in wireless networks
- 20060194616 - Sectorized wireless communication network operating under 802.11 specifications
- 20060194587 - System and method for asset location in wireless networks
- 20060194568 - System and method for determining location of rogue wireless access point
- 20060172756 - System and method for clustering mobile devices in a wireless network
- 20060125631 - RF tracking system and method
- 20050153713 - Method and apparatus for location tracking in a multi-path environment
- 20050136891 - Wireless lan intrusion detection based on location
- 20050135321 - Spatial wireless local area network
- 20050113090 - System and method for determining location of rogue wireless access point
- 20050096091 - Method and system for wireless communications using multiple frequency band capabilities of wireless devices
- 20050047343 - Bandwidth management in wireless networks
- 20040157604 - System and method for medium access control in a wireless network
- 20040057459 - System and method for wireless network channel management
- 20040038695 - SYSTEM AND METHOD FOR MEDIUM ACCESS CONTROL IN A WIRELESS NETWORK
- 20040027251 - RF tracking system and method
- 20030020629 - Wearable communication system
- 20020152391 - Cryptographic architecture for secure, private biometric identification
- 20020150098 - Local addressing of mobile units in a WLAN with multicast packet addressing
- 20020018451 - Method and apparatus for variable power control in wireless communications systems

Published International Patent Applications
- WO2013036487 - Small cells implementing multiple air interfaces

- WO0227989 - Logical addressing of mobile units in a wlan with multicast packet addressing
- WO2005046256 - Method and system for wireless communication using multiple frequency band capabilities of wireless devices
- WO2009146082 - Rfid monitoring of drug regimen compliance
- WO2004019539 - System and method for medium access control in a wireless network
- WO2005060172 - Wlan with a plurality of antennas in both access point and mobile unit
- WO2006093884 - Sectorized wireless communication network operating under 802.11 specifications
- WO2014140877 - Unlicensed spectrum offload architecture for small-cell base stations
- WO2006107538 - System and method for wireless multiple access
- WO2004028054 - System and method for wireless network channel management
- WO0205578 - Method and apparatus for variable power control in wireless communications systems
- WO2005072000 - Method and apparatus for location tracking in a multi-path environment
- WO2006093710 - System and method for asset location in wireless networks
- WO2005046254 - System and method for determining location of rogue wireless access point
- WO2006083535 - System and method for clustering mobile devices in a wireless network
- WO2006107537 - Wireless device and method for wireless multiple access
- WO2006107535 - Access point and method for wireless multiple access
- WO9736444 - An architecture for mobile radio networks with dynamically changing topology using virtual subnets
- JP2017225127 - Small cells implementing multiple air interfaces
- JP2002185476 - Coexistence technique in wireless network
- CA2495618 - System and method for wireless network channel management
- CA2602569 - System and method for wireless multiple access
- CA2543459 - Method and system for wireless communication using multiple frequency band capabilities of wireless devices
- CA2602399 - Wireless device and method for wireless multiple access
- CA2602572 - Access point and method for wireless multiple access
- EP2752051 - Small cells implementing multiple air interfaces
- EP1232594 - Logical addressing of mobile units in a wlan with multicast packet addressing
- EP1678836 - Method and system for wireless communication using multiple frequency band capabilities of wireless devices
- EP1702491 - Method and apparatus for location tracking in a multi-path environment
- EP1864396 - System and method for wireless multiple access
- EP1733511 - Wlan with a plurality of antennas in both access point and mobile unit
- EP1300029 - Method and apparatus for variable power control in wireless communications systems
- EP1844615 - System and method for clustering mobile devices in a wireless network
- EP1864404 - Wireless device and method for wireless multiple access
- EP1864516 - Access point and method for wireless multiple access
- EP0886981 - An architecture for mobile radio networks with dynamically changing topology using virtual subnets
- EP1906294 - Wearable communication system
- AU9483001 - Logical addressing of mobile units in a wlan with multicast packet addressing
- AU2003272648 - System and method for wireless network channel management
- AU2006218786 - Sectorized wireless communication network operating under 802.11 specifications
- AU2003265675 - System and method for medium access control in a wireless network
- AU2001294830 - Logical addressing of mobile units in a wlan with multicast packet addressing
- GB2319439 - Network Architecture for Linking Base Stations