

## Dr.-Ing. Radosław Piesiewicz

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Director of ICT R&D

### Professional experience

**2006 - present FP7/FP6 Framework Program, European Commission – Brussels, Belgium** – Expert evaluator

**Description:** Evaluation of proposals in FP7/FP6 Framework Program in different Objectives.

**05/2009 – present Wrocław Research Center EIT+ – Wrocław, Poland** – Director of ICT R&D

**Description:** Development of the vision and strategy as well as responsibility for the operation of the ICT Research Center. Management of the overall research and development activities in the field of ICT. Management of staff. Coordination of projects acquisition activities in EU FP7, POIG, industrial and from other funding sources. Contacts with industry, public institutions and with the EU Commission.

Acquisition and leadership of international/national/industrial projects: **EU FP7 Call 4 STREP C2Power, Saphyre and Fiver**, and **FP7 Call 5 STREP OneFit, NoE Acropolis and IP EUWB-Enlarged**. Leadership of WG3 – Network Wide Cognitive Mechanisms in the COST Action IC0902. MC member on the side of Poland in the COST IC0905 Action.

**03/2008 –05/2009 Create-Net – Trento, Italy** – Head of Broadband & Wireless Area

**Description:** Management of staff and operation of the Broadband & Wireless area. Leadership of research and project activities. Focus on wireless and optical communications, in particular UWB, cognitive and reconfigurable radio and networks, optical networks, hybrid wireless-optical communications, dynamic impairment aware optical networking.

Acquisition and leadership of international/national/industrial projects: **EU FP7 IP EUWB** (management of the team, leadership of Cognitive Radio and Coexistence Workpackage, member of the Management Board, enhanced UWB technology for different application environments), **EU FP7 STREP DICONET** (management of the team, dynamically reconfigurable and impairment aware optical core networks), **EU FP6 STREP Ming-T** (management of the team, broadcast wireless convergence), **I-Chip** (management of the team, hybrid optical wireless, radio over fiber, UWB, 60 GHz, MAE Italy project with Chinese partners), **Matrigo II/III** (management of the team, industrial project with a major optical vendor, impairment aware optical networking), **CISCO RFP** (management of the team, industrial project with **CISCO**, integrated translucent network design), **ACUBE** (management of the team, Trentino Province, UWB for communications and localization for assisted ambient living).

Active participation in the ETSI TC RRS committee and in the FP7 RAS Cluster S&E Group; Organizer, chair and panellist in a number of sessions at international conferences/events; Distinguished keynote speaker at the IEEE NGMAST 2008; Initiator of the COST Action IC0902; TPC member in a number of international conferences.

**01/2004 – 03/2008 Institute for Communications Technology, Mobile Radio Systems Department, Technical University of Braunschweig – Braunschweig, Germany** – Research Project Engineer

**Description:** THz communication systems technology. System design and architecture, channel characterization and wave propagation of wireless multi-gigabit communication systems beyond 100 GHz. Modeling, simulation, measurements and planning of UWB, 60 GHz and Hybrid Networks. PhD degree. Interdisciplinary research in the Terahertz Communications Lab (mobile communication, microwave engineering, THz systems).

Participation (coordination, implementation and conceptual activities) in industrial/national/international projects: **Data Communication and Localization** (industrial project with **Airbus GmbH**, UWB radio technology, channel measurements and modeling in an aircraft cabin), **QStream** (EU Medea+, architecture design, modeling and simulations for a 60 GHz system with beam switched antennas for multi-gigabit wireless data transmission with quality of service), **Taifun** (TCL project, strategies and technologies for THz communication systems), **THz-**

**Channel** (TCL project, measurements and characterization of communication channels at THz frequencies for different application scenarios) .

**08/2002 – 01/2004 Fraunhofer IZM, Advanced Systems Engineering - Paderborn, Germany - R&D Project Engineer**

**Description:** Modeling and simulation of multi-layer boards and packages in the framework of the **EU MEDEA+ MESDIE A509** project - Microelectronic EMC System Design for High Density Interconnect and High Frequency Environment. Model order reduction techniques, matrix rational approximation for transmission lines, equivalent SPICE circuit models.

**09/2000 – 08/2002 Axis - Gdańsk, Poland - Project leader**

**Description:** Project leader in the area of software development (Delphi, C++) for electronic scales and automated weighing machines.

## **Education**

**01/2004 – 03/2008 Technical University of Braunschweig - (Germany – Braunschweig) – Dr.-Ing. degree (Ph.D.)** in ultra-broadband wireless communication systems, with a title: Propagation aspects and performance study of future indoor wireless communication systems at THz frequencies, summa cum laude (mit Auszeichnung), **Walter-Kertz Prize 2008** for the best dissertation in interdisciplinary research.

**10/1997 – 07/2002 Technical University of Gdańsk- (Poland – Gdańsk) – M.S.E.E. with major in Microwave Engineering and Optical Telecommunication, highest honors, Golden Badge distinction.**

**10/1996 – 06/1997 Warsaw School of Economics- (Poland – Warsaw) – Studies of Economics and Management.**

**09/1994 – 06/1996 International Baccalaureate Bilingual Diploma, IB - (Switzerland – Geneva, Poland – Gdynia, III LO im. Marynarki Wojennej) – Bilingual Diploma co-issued in Gdynia and Geneva, 41/45 points.**

**08/1993 – 07/1994 Coronado High School - (US – San Diego) – Exchange student.**

## **Professional Activities**

### **Participation in fora and bodies**

- **FP7 RAS Cluster S&E Group**
- **COST Action IC0902 – WG3 Chair**
- **COST Action IC0905 – MC Member**
- **ETSI TC RRS**

### **Organization and chairing of conferences/workshops/sessions**

- Steering Committee member of the Future Networks and Mobile Summit 2011
- Organizing and steering committee member, EUROPECOMM 2009, London, UK
- Organization and chairing a special session, Enabling Architectures and Cognitive Pilot Channel Solutions for Future Cognitive Wireless Systems and Networks, IEEE CrownCom 2009, Hannover, Germany
- Chairing a session, Future Internet, ICT Mobile Summit 2009, Santander, Spain
- Organizing committee member, Dynamic Spectrum Management in Cognitive Radio Networks, Workshop, ICT Mobile Summit 2009, Santander, Spain
- Organizing committee member, Track Chair, PSATS 2009 Conference, Rome, Italy
- Organization and chairing of a plenary convened session, Propagation above 50 GHz, EUCAP 2009, Berlin, Germany
- Organization and chairing of a networking session, Cognitive and Reconfigurable Radio Systems, FP7 ICT Event, Lyon, November 2008
- Organization and chairing of a special session, Antenna and Propagation Aspects in Future Multi-Gigabit Systems beyond 100 GHz, IEEE Antennas and Propagation Symposium 2008, San Diego, US

## **Distinguished/invited speeches and participation in panels**

- Panelist, Cognitive Pilot Channel as enabler for future heterogeneous cognitive networks, panel in a special session: Enabling Architectures and Cognitive Pilot Channel Solutions for Future Cognitive Wireless Systems and Networks, IEEE CrownCom, Hannover, June 2009
- Panelist, Cognitive and Reconfigurable Radio Systems networking session, FP7 ICT Event, Lyon, November 2008
- **Distinguished keynote speech**, Convergence of Man and Machine Processes in the Emerging Internet, IEEE NGMAST 2008, September 2008, Cardiff, UK
- Panelist, RAS cluster workshop, FP7 concertation meeting, September 2008, Brussels, Belgium
- Panelist, UWB Workshop, FP7 concertation meeting, September 2008, Brussels, Belgium

**Publications:** Books, journals and conferences; details on [www.piesiewicz.info/publications](http://www.piesiewicz.info/publications)

**Technical Program Committee Member:** FutureTech 2010 - Co-Chair of Track Digital Convergence, IEEE PIMRC 2009, IEEE CrownCom 2009, ICT Mobile Summit 2009, IEEE CCECE 2009, EUCAP 2009, FIS 2008, I-CENTRIC 2008, IEEE APS 2008, EUCAP 2007

## **Languages**

**Polish, English, German - fluent**