



IARIA Fellow
Daniela Dragomirescu, PhD. Ing.

Daniela Dragomirescu received the PhD degree from the University of Toulouse, France. Currently, Daniela Dragomirescu is Associate Professor at the University of Toulouse and LAAS-CNRS laboratory where she is conducting research activities in the area of wireless communications, wireless networks, with a special focus on Wireless Sensor Networks. She is leading a team of around 15 persons on Wireless Sensors Networks formed by Ph.D. students, master students, post-doctoral fellows and research engineers.

Daniela Dragomirescu research activities concern the physical and MAC layer : developing very low power base band using UWB impulse radio including reconfigurability, very low power RF front end architectures, very high data rate communications at 60GHz, reconfigurable communications, adding new functionalities like synchronization, time stamp or localization, cross-layering, down to ASIC and SoC implementation, including processor integration. A special research interest is on system level design, software hardware co-design for very low power wireless communications systems adapted to wireless sensor networks. A new research topic is focused on the flexible substrate integration of wireless sensor communicating node including MAC layer, base band, RF front end and antenna at 60GHz.

Daniela Dragomirescu was or is the LAAS-CNRS project leader for different European projects in the area of wireless communications (like MIMOSA project- **M**icrosystems platform for **M**obile **S**ervices and **A**pplications or QSTREAM project – Ultra High Data Rate Wireless Communications) or university teachings (LIVIUS European project - harmonize around Europe the syllabus in Computer Science and Telecommunications).

Daniela Dragomirescu received the French National Research Agency grant for Young Investigator which supported her in setting up the team in the Wireless Sensor Network area. She is also involved currently in other 3 national projects as LAAS-CNRS team project leader.

She is an expert in the area of Telecommunications and System on a Chip for French Research Agency (ANR), for French Foreign Office (expert mission in foreign countries), for French Research Minister and for the governmental agency for supporting the development of Small and Medium Enterprises.

Daniela Dragomirescu published more than 70 papers in journals and conferences proceedings and she co-authored a patent and 7 courses for students.

Daniela Dragomirescu is involved in IARIA activities since 2008. She served in IARIA International Conference on Systems - ICONS advisory board and in IARIA International Conference on Networks advisory board and as chairman session for ICONS and ICN. She published a number of papers in IARIA conferences, especially ICNOS and ICN conferences and obtained 5 Best Papers Award. In 2010 Daniela Dragomirescu gave an invited talk at ICONS/ICN conference on “Cyber-Physical Systems for Aeronautic Applications” and was a panelist in the ICONS2010 Panel discussion on “Robustness in Real-time Complex Systems”.