



All things wireless ●



High quality consulting,
implementation and R&D services in
the field of modern wireless systems
(5G, 6G, IoT, O-RAN).

Who we are?

RIMEDO Labs specializes in providing the best quality and substantive consulting, implementation and R&D services in the field of modern wireless systems.

We implement this through an individual and open approach to the client, constantly improving the team operationally and substantively, updating knowledge and a unique combination of science and business applications.

RIMEDO Labs is a spin-off from the Poznan University of Technology, Poland from the Institute of Radiocommunications.



#Research
#Engineering
#Consulting

Why we?

Work experience for equipment manufacturers, operators, national and international projects

Experienced scientific and research staff

Knowledge sharing

Close cooperation with the Poznan University of Technology (University spin-off)

Experts in the field - most of the staff have a minimum doctorate degree specializing in radiocommunication



Combining university and business knowledge

A non-standard and modern approach to the topic

Access to specialized measuring and research tools



Applied Research

The areas of our specialization cover wireless systems (like LTE, 5G, 6G, IoT, Wi-Fi), spectrum sharing and management, radio resource management, AI for wireless systems and private mobile networks. We offer our expertise as part of consortiums for EU and National funded projects (like Horizon 2020, Horizon Europe, NCBR, etc.). We can take part in those projects as leader, partner or subcontractor.



Consulting

Having extensive experience in the field of modern wireless systems we offer high quality consulting and advisory services delivered by our seasoned engineers and consultants. RIMEDO Labs Consulting include cover, among others the following items: radio planning and site surveys, technology forecasting, preparation of feasibility studies, systems architecting, wireless systems patent analysis, standards tracking, or expert/R&D team outsourcing.



Training

Our training services include online and on-site courses, conferences, meetups or workshops tailored to customer's needs and requirements. The topics, which are covered by us include: 4G, 5G and beyond, IoT, Wi-Fi, spectrum management, radio resource management, private networks, design, planning and troubleshooting of wireless systems, artificial intelligence for wireless systems. Our top-class instructors combine scientific and educational background with practical experience. We speak about the systems we design.



Technical Content Delivery

We provide technical contents for external training or consultancy companies delivered as training materials, technical documents, dedicated research papers, books, book chapters, slides, reports or raw materials for further processing. The material can be developed as insights onto a specific feature or aspect within wireless systems area, including topics like: LTE, 5G and beyond, Wi-Fi, IoT, shared spectrum, AI, etc. The educational content, can be also delivered in the form of virtual radio labs.

Our values

Openness & Transparency: inside and outside of the company.

Reliability: the Team and the Customer can rely on us.

Strive for Excellence: in processes, technology and serving the Customer.

Team First: motivate d team – satisfied customer.

Knowledge Sharing: inside and outside of the company.

How we work?



Requirements gathering and analysis

Discussion with the customer to obtain all required information and analysis of the requirements.



Offer preparation and service delivery

Providing alternatives or best single offer according to requirements. The customer is assigned a dedicated consultant to lead the assignment.



Feedback and post service support

We include offline Q&A in a certain period after the main service is delivered, to make sure that the customer is not left with unanswered questions.

Commercial projects our team members took part in

R&D Consulting: Designing RRM/SON algorithms for LTE & 5G systems, architecture design for 5G RAN, and research on Radio Environment Maps for 5G for the Tier 1 telecom vendor.

5G Training: Conducting and designing LTE/5G technical courses including preparation of the course concept, materials, scripts, exercises, and knowledge transfer for online and on-site courses.

5G Standardization: Consulting on specific aspects of LTE and 5G standardization progress involving detailed research and training for the customer.

5G Consultations: Answering investment institutions' questions like: What 5G is? What are the key players? What are the main features? When will it be implemented? What are the challenges for 5G? What is O-RAN?

Patent Analysis: Analysis of the significance of the 5G patents, preparation of claim charts, comparing various versions of the patent.

EU Projects our team members took part in

COHERENT – Coordinated control and spectrum management for 5G heterogeneous radio access networks – EU H2020

5GNOW – 5th Generation Non-Orthogonal Waveforms for Asynchronous Signalling – EU FP7

SOLDER – Spectrum OverLay through aggregation of heterogeneous DispERsed Bands – EU FP7

NEWCOM# – Network of Excellence in Wireless Communication – EU FP7

ACROPOLIS – Advanced coexistence technologies for radio optimisation in licenced and unlicensed spectrum – EU FP7

COGEU – Cognitive radio systems for efficient sharing of TV white spaces in European context – EU FP7

NEWCOM++ – Network of Excellence in Wireless Communication – EU FP7

Founders



Marcin Dryjański, Ph.D.

Principal Consultant / CEO

Involved in 5G design since 2012.
Senior IEEE Member.



Prof. Hanna Bogucka

Head of Cooperation / Board Member

Professor of technical sciences.
Senior IEEE Member.



Adrian Kliks, Ph.D.

Chief Architect / Board Member

International projects manager.
Senior IEEE Member.

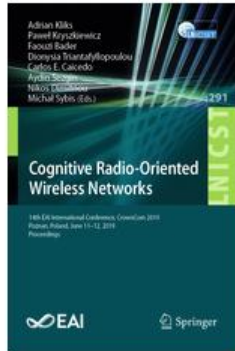


Paweł Kryszkiewicz, Ph.D.

Technical Director

Cognitive Radio systems expert.
Senior IEEE Member.

Our books

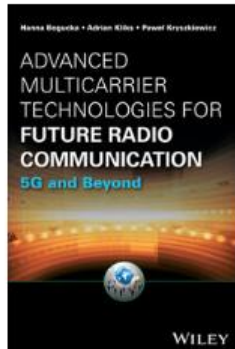


Adrian Kliks, Pawel Kryszkiewicz, Faouzi Bader, Dionysia Triantafyllopoulou, Carlos E. Caicedo, Aydin Sezgin, Nikos Dimitriou, Michal Sybis (Eds.)

Cognitive Radio-Oriented Wireless Networks

Springer 2019

ISBN 978-3-030-25748-4, 410 Pages

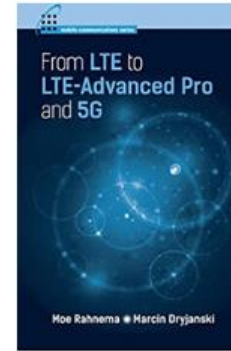


Hanna Bogucka, Adrian Kliks, Pawel Kryszkiewicz

Advanced Multicarrier Technologies for Future Radio Communication: 5G and Beyond

John Wiley & Sons, New York 2017

ISBN: 978-1-119-16889-8, 304 Pages



Moe Rahnema, Marcin Dryjanski

From LTE to LTE-Advanced Pro and 5G

Artech House, London 2017

ISBN: 978-1-630-81453-3, 372 Pages



Oliver Holland, Hanna Bogucka, Arturas Medeisis (Eds.)

Opportunistic Spectrum Sharing and White Space Access: The Practical Reality

John Wiley & Sons, New York 2015

ISBN: 978-1-119-05730-7, 736 Pages

Our key publications

"Beyond 5G: Big Data Processing for Better Spectrum Utilization", **Adrian Kliks; Lukasz Kulacz; Pawel Kryszkiewicz; Hanna Bogucka; Marcin Dryjanski;** Magnus Isaksson; George Koudouridis; Per Tengkvist, September 2020, IEEE Vehicular Technology Magazine

"A Hierarchical and Modular Radio Resource Management Architecture for 5G and Beyond", **Marcin Dryjanski, Adrian Kliks,** July 2020, IEEE Communications Magazine

"Adoption of Smart Cities with a Practical Smart Building Implementation", **Marcin Dryjański, Mateusz Buczkowski,** Youssouf Mouhamedou, **Adrian Kliks,** Mar 2020, IEEE Internet of Things Magazine

"Private 5G networks. Local cellular networks for enterprises", **Marcin Dryjański,** Feb 2020, mensis.pl

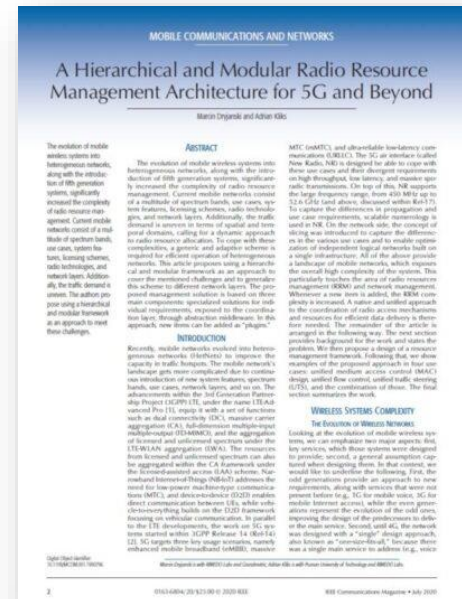
"Coordinated Spectrum Allocation and Coexistence Management in CBRS-SAS Wireless Networks", **Lukasz Kułacz, Pawel Kryszkiewicz, Adrian Kliks, Hanna Bogucka, et al.,** IEEE Access, July 2019

"Context-Based Resource Management and Orchestration in 5G Wireless Access Networks", **Pawel Kryszkiewicz, Adrian Kliks, Lukasz Kułacz, Hanna Bogucka,** George Koudouridis, **Marcin Dryjański,** Nov 2018, Hindawi, Wireless Communications and Mobile Computing Journal

"Spectrum Management Application for Virtualized Wireless Vehicular Networks", **Adrian Kliks, Pawel Kryszkiewicz, Łukasz Kułacz, et. al,** IEEE Vehicular Technology Magazine, Dec. 2018

"Small-scale spectrum aggregation and sharing", **Pawel Kryszkiewicz, Adrian Kliks, Hanna Bogucka,** IEEE Journal on Selected Areas in Communications, Oct. 2016

"A Unified Traffic Steering Framework For LTE Radio Access Network Coordination", **Marcin Dryjański,** Michał Szydełko, Jul 2016, IEEE Communications Magazine



Our Advisory Board



Prof. Lajos Hanzo, Ph.D.

*Professor at University of Southampton
UK*



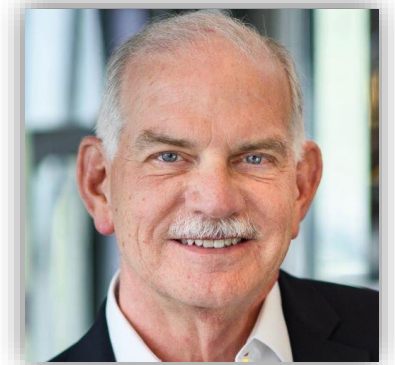
Prof. T. Russell Hsing

*Advisory Council Member for Harvard
Business Review, USA*



Russell Lundberg

*Consultant & Senior Manager
USA*



Prof. H. Vincent Poor

*Professor at Princeton University
USA*

Our partners





Your trusted partner in: DSS, LTE,
5G, 6G, RRM, Private Mobile
Networks, Wi-Fi, IoT, UDN, O-RAN.

How we can help you?

Let's keep in touch!

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