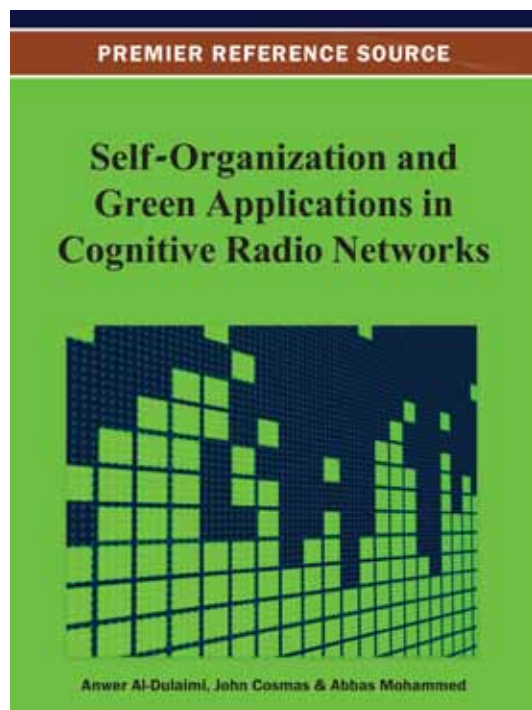


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## Self-Organization and Green Applications in Cognitive Radio Networks



Anwer Al-Dulaimi (Brunel University, UK),  
John Cosmas (Brunel University, UK) and  
Abbas Mohammed (Blekinge Institute of Technology, Sweden)

**Self-Organization and Green Applications in Cognitive Radio Networks** provides recent research on the developments of efficient cognitive network topology. The most current procedures and results are presented to demonstrate how developments in this area can reduce complications, confusion, and even costs. The book also identifies future challenges that are predicted to arrive in the Cognitive Radio Network along with potential solutions. This innovative publication is unique because it suggests green, energy efficient and cost efficient resolutions to the inevitable challenges in the network.

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- Cognitive Radio Networks
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- Organizational Behavior
- Wireless Systems
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- Network Security

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**Anwer Al-Dulaimi** obtained his PhD degree in Cognitive LTE Radio Systems in 2012 from Brunel University, London, UK, after being awarded BSc and MSc honours degrees in Telecommunication Engineering. Prior to this he worked as a laboratory assistant and assistant lecturer in many universities where he taught many courses in communications and electronics engineering. He also worked as a technical manager for the Canadian Chambers of Trade and Technology Federation. His research interests lie in the area of 4G wireless systems with special focus on dynamic spectrum access, adaptive transmission domains, mobility, and alternative routing algorithms that consider the energy savings and information exchange between peer radios. His research has been documented in high-quality IEEE publications and has been referenced by USA patents. He is a member of the IEEE1900.5, 7 and SE43 standardization committees for the future Cognitive radio systems. He is a member of the COST Action IC0905 TERRA, European Alliance for Innovation (EAI), and the European Technology Platform (Photonics21). Dr Anwer is a reviewer for many IEEE journals and conferences. Besides being a member of the IEEE and the IET, he was recognised as a Chartered Engineer (CEng) in April 2010 and Associate Practitioner (AHEA) of the British Higher Education Academy in 2012.



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