1.

Record Nr.	UNISA996466461503316
Titolo	Rough Sets [[electronic resource]] : International Joint Conference, IJCRS 2017, Olsztyn, Poland, July 3–7, 2017, Proceedings, Part II / / edited by Lech Polkowski, Yiyu Yao, Piotr Artiemjew, Davide Ciucci, Dun Liu, Dominik Izak, Beata Zielosko
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2017
ISBN	3-319-60840-1
Edizione	[1st ed. 2017.]
Descrizione fisica	1 online resource (XXV, 581 p. 116 illus.)
Collana	Lecture Notes in Artificial Intelligence ; ; 10314
Disciplina	511.32
Soggetti	Artificial intelligence
	Database management
	Application software
	Information storage and retrieval
	Artificial Intelligence
	Database Management
	Information Systems Applications (incl. Internet)
	Information Storage and Retrieval
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Vagueness, rough sets; mereology -- Three-way decisions, uncertainty, granular computing -- Recent advances in biomedical data analysis, trends in multi-agent systems, formal concept analysis, rough set theory and their applications -- General rough sets.
Sommario/riassunto	This two-volume set LNAI 10313 and LNAI 10314 constitutes the proceedings of the International Joint Conference on Rough Sets, IJCRS 2017, held in Olsztyn, Poland, in July 2017. The 74 revised full papers presented together with 16 short papers and 16 invited talks, were carefully reviewed and selected from 130 submissions. The papers in this two set-volume of IJCRS 2017 follow the track already rutted by RSCTC and JRS conferences which aimed at unification of many facets of rough set theory from theoretical aspects of the rough set idea bordering on theory of concepts and going through algebraic

structures, topological structures, logics for uncertain reasoning, decision algorithms, relations to other theories of vagueness and ambiguity, then to extensions of the rough set idea like granular structures, rough mereology, and to applications of the idea in diverse fields of applied science including hybrid methods like rough-fuzzy, neuro-rough, neuro-rough-fuzzy computing. IJCRS 2017 encompasses topics spread among four main tracks: Rough Sets and Data Science (in relation to RSCTC series organized since 1998); Rough Sets and Granular Computing (in relation to RSFDGrC series organized since 1999); Rough Sets and Knowledge Technology (in relation to RSKT series organized since 2006); and Rough Sets and Intelligent Systems (in relation to RSEISP series organized since 2007).

2.	Record Nr.	UNINA9910676532603321
	Titolo	Handbook of position location : theory, practice, and advances / / edited by Seyed A. Zekavat, R. Michael Buehrer
	Pubbl/distr/stampa	Hoboken, New Jersey : , : Wiley-IEEE Press, , 2019
	ISBN	1-119-43461-0
	Edizione	[Second edition.]
	Descrizione fisica	1 online resource
	Disciplina	910.285
	Soggetti	Location-based services
		Wireless communication systems
		Wireless localization
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Nota di contenuto	Fundamentals of Position Location -- Fundamentals of Position Location. Wireless Positioning Systems: Operation, Application, and Comparison / S A (Reza) Zekavat, Stuti Kansal, Allen H Levesque -- Localization Sensor Error Measures and Analysis / Mojtaba Bahramgiri, S A (Reza) Zekavat -- Source Localization: Algorithms and Analysis / H C So -- Channel Modeling and Its Impact on Localization / S A (Reza) Zekavat -- An Introduction to Kalman Filtering Implementation for Localization and Tracking Applications / Shu Ting Goh, S A (Reza)

Zekavat, Ossama Abdelkhalik -- TOA and DOA Based Positioning -- TOA and DOA Based Positioning. Fundamentals of Time-of-Arrival-Based Position Location / R Michael Buehrer, Swaroop Venkatesh -- TOA Estimation Techniques: A Comparison / Mohsen Pourkhaatoun, S A (Reza) Zekavat -- Wireless Localization Using Ultra-Wideband Signals / Liuqing Yang, Huilin Xu -- An Introduction to Direction-of-Arrival Estimation Techniques / S A (Reza) Zekavat -- Positioning in Inhomogeneous Media / Mohsen Jamalabdollahi, S A (Reza) Zekavat, Michigan Tech -- Received Signal Strength Based Positioning -- Received Signal Strength Based Positioning. Fundamentals of Received Signal Strength-Based Position Location / Jeong Heon Lee, R Michael Buehrer -- On the Performance of Wireless Indoor Localization Using Received Signal Strength / Jie Yang, Yingying Chen, Richard P Martin, Wade Trappe, Marco Gruteser -- Impact of Anchor Placement and Anchor Selection on Localization Accuracy / Yingying Chen, Jie Yang, Wade Trappe, Richard P Martin -- Kernel Methods for RSS-Based Indoor Localization / Piyush Agrawal, Neal Patwari -- Fingerprinting Location Techniques / Rafael Saraiva Campos, Lisandro Lovisolo -- LOS/NLOS Localization - Identification - Mitigation -- LOS/NLOS Localization - Identification - Mitigation. NLOS Identification and Localization / Wenjie Xu, Zhonghai Wang, S A (Reza) Zekavat -- NLOS Mitigation Methods for Geolocation / Joni Polili Lie, Chin-Heng Lim, Chong-Meng Samson See -- Mobile Position Estimation Using Received Signal Strength and Time of Arrival in Mixed LOS/NLOS Environments / Bamrung Tau Siesku, Feng Zheng, Thomas Kaiser -- Mobile Tracking in Mixed Line-of-Sight/Non-Line-of-Sight Conditions: Algorithms and Theoretical Lower Bound / Liang Chen, Simo Ali-Lo¨ytty, Robert Piche´, Lenan Wu -- Global Positioning -- Global Positioning. Overview of Global Positioning Systems / Fabio Dovis, Davide Margaria, Paolo Mulassano, Fabrizio Dominici -- Digital Signal Processing for GNSS Receivers / Letizia Lo Presti, Maurizio Fantino, Marco Pini -- Kalman Filter-based Approaches for Positioning: Integrating Global Positioning with Inertial Sensors / Emanuela Falletti, Gianluca Falco -- An overview on Global Positioning Techniques for Harsh Environments / Nicola Linty, Fabio Dovis -- Network Localization -- Network Localization. Collaborative Position Location / R Michael Buehrer, Tao Jia -- Polynomial-Based Methods for Localization in Multiagent Systems / Iman Shames, Bariscedil; Fidan, Brian D O Anderson, Hatem Hmam -- Belief Propagation Techniques for Cooperative Localization in Wireless Sensor Networks / Vladimir Savic, Santiago Zazo -- Error Characteristics of AD HOC Positioning Systems / Dragoscedil; Niculescu -- Self-Localization of UAV Formations Using Bearing Measurements / Iman Shames, Baris? Fidan, Brian D O Anderson, Hatem Hmam -- Special Topics and Applications -- Special Topics and Applications. Localization for Autonomous Driving / Ami Woo, Baris Fidan, William W Melek -- RFID-Based Autonomous Mobile Robot Navigation / Sunhong Park, Guillermo Enriquez, Shuji Hashimoto -- Visible Light-Based Communication and Localization / Lisandro Lovisolo, Michel P Tcheou, Fla´vio R Aacute;vila -- Positioning in LTE / Ari Kangas, Iana Siomina, Torbjo¨rn Wigren -- Automated Wildlife Radio Tracking / Robert B MacCurdy, Allert I Bijleveld, Richard M Gabrielson, Kathryn A Cortopassi -- Wireless Local Positioning Systems / S A (Reza) Zekavat -- Near-Ground Channel Modeling with Applications in Wireless Sensor Networks and Autonomous Driving / Amir Torabi, S A (Reza) Zekavat.

Sommario/riassunto	A comprehensive review of position location technology from fundamental theory to advanced practical applications. Positioning systems and location technologies have become significant components of modern life, used in a multitude of areas such as law

enforcement and security, road safety and navigation, personnel and object tracking, and many more. Position location systems have greatly reduced societal vulnerabilities and enhanced the quality of life for billions of people around the globe yet limited resources are available to researchers and students in this important field. The Handbook of Position Location: Theory, Practice, and Advances fills this gap, providing a comprehensive overview of both fundamental and cutting edge techniques and introducing practical methods of advanced localization and positioning. Now in its second edition, this handbook offers broad and in depth coverage of essential topics including Time of Arrival ;TOA and Direction of Arrival DOA based positioning, Received Signal Strength RSS based positioning, network localization, and others. Topics such as GPS, autonomous vehicle applications, and visible light localization are examined, while major revisions to chapters such as body area network positioning and digital signal processing for GNSS receivers reflect current and emerging advances in the field. This new edition: Presents new and revised chapters on topics including localization error evaluation, Kalman filtering, positioning in inhomogeneous media, and the Global Positioning System GPS in harsh environments Offers MATLAB examples to demonstrate fundamental algorithms for positioning and provides online access to all MATLAB codes Allows practicing engineers and graduate students to keep pace with contemporary research and new technologies Contains numerous application based examples including the application of localization to drone navigation, capsule endoscopy localization, and satellite navigation and localization Reviews unique applications of position location systems, including GNSS and RFID based localization systems. The Handbook of Position Location: Theory, Practice, and Advances, Second Edition, is a valuable resource for practicing engineers and researchers seeking to keep pace with current developments in the field, graduate students in need of clear and accurate course material, and university instructors teaching the fundamentals of wireless localization.