University of Manitoba
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James F Peters, Dr, Professor

https://www.researchgate.net/profile/James_Peters

Education

Aug 1987 – May 1991 **Kansas State University**
PhD, CIS:Mathematical Logic, Constructive Specification
Manhattan, Kansas, United States

Aug 1966 – Dec 1967 **Santa Clara University**
MSc, Mathematics
Santa Clara, California, United States

Sep 1962 – May 1966 **San Jose State University**
Bachelor of Science, Mathematics
San Jose, California, United States

Sep 1957 – May 1961 **Santa Clara University**
Bachelor of Arts, Philosophy
Santa Clara, California, United States

Thesis: Construction Specification of Communicating Processes

Research Experience

Jun 2014 – Jun 2020 **Proximity Spaces**
Università degli Studi di Salerno, Department of Mathematics DIPMAT
Fisciano, Italy

Study of various forms of proximities and hyper topologies, connectedness, boundedness, local proximity and strongly proximal continuity. Theory and applications.

Nov 2013 – Dec 2020 **Algebraic Structures in Proximal Banach Spaces**
Adıyaman University, Department of Mathematics
Adiyaman, Adiyaman, Turkey

Study of various forms of algebraic structures in finite-dimensional normed linear spaces endowed with one or more proximity relations.

Dec 2012 – present **Applications of Near Sets**

Universidade Federal de São Carlos, Departamento de Ciência da Informação (DCI)
Sao Carlos, Brazil

Applications of near sets in study of solar flare cycles

Jan 2009 – present **Topology of Digital Images**
University of Manitoba, Department of Electrical and Computer Engineering
Winnipeg, Canada

Focus: discovering patterns and structures in an algebraic topology and computational geometry of digital images.

Jan 2008 – present

University of Warsaw, Institute of Mathematics
Warsaw, Poland

Nearness of visual objects

Jan 2007 – present

The University of Winnipeg, Department of Applied Computer Science
Winnipeg, Canada

Near sets: theory and applications

Jan 1995 – present **Professor Dr.**
University of Manitoba, Department of Electrical and Computer Engineering
Winnipeg, Canada

Discovery of algebraic structures, proximities, and topologies of digital images.

Jun 1992 – Aug 1994 **Researcher**
California Institute of Technology, Jet Propulsion Laboratory
Pasadena, USA

I worked on the verification of commond sequences for the TOPEX satellite used to map the changing surface of planet oceans and also on the correctness of the controller for antennas in the deep space network.

Sep 1991 – May 1994 **Assistant Professor**
University of Arkansas, Department of Computer Science and Computer Engineering
Fayetteville, USA

Statistics

RG Score	120.18
Publications	361
Total Impact Points	98.88

Views	27k
Downloads	12,142
Citations	2269

Awards & Grants

Skills & Activities

Skills Applied Mathematics, Pattern Recognition, Engineering, Applied and Computational Mathematics, Topology, Image Processing, Distance, Rough Sets, Computational Intelligence, Image Segmentation, Classification, Reinforcement Learning, Robotics, Image Analysis, Video Processing, Machine Learning, Biometrics, Signal Processing, Computer Engineering, Signal, Image and Video Processing, Fuzzy Set Theory, Rough Set Theory, Choquet Integral, Tolerance Near Set Theory, Petri Nets, CSP, Higher Order Logic, Communicating Sequential Processes, Temporal Logic, Proof Theory, Constructive Specification, description, Input/Output Automata, Real-Time Temporal Logic, Ethology, Near Set Theory, Real-Time Communicating Sequential Processes, Set Theory, Descriptive Analysis, Feature, Closeness, Nearness of Sets, Probe Function, closeness of descriptions, Visual Pattern Recognition, Near Sets, Descriptive Proximity, Applied Topology, Separation Axioms, Set-Theoretic Topology, Set Pattern Generators, Descriptively Near Set Patterns, Pattern Generator Stability, Philosophy of Mathematics, Neural Networks, Intelligent Systems, Data Mining, Algorithms, Computer Vision, Pattern Classification, Mathematics, Clustering, Feature Selection, Satellite Telemetry, Telemetry, Satellite Systems, Feature Extraction, Object Recognition, Unsupervised Learning, Machine Vision, Image Data Analysis, Digital Image Analysis, approach spaces, Visual Perception, Approach merotopies, set patterns, proximity spaces, descriptive proximity spaces, Advanced Machine Learning, Object Tracking, Editorial skills, Category Theory, 3D Vision, Digital Image Processing, MATLAB, Digital Topology, saliency, Mathematica, Efremovic proximity, proximity space theory, closure of a set, pattern generators, Naimpally near and far, dense subspace, picture points, similarity distance, Editing, Soft Computing, Metric Space, Logic, Petri Nets Modeling, Editorial Design, Learning, Biography, History of Rough Sets, Adaptive Learning, Similarity Measures, Neural Networks and Artificial Intelligence, Automata Theory, Real-Time Systems, Embedded System Design, Granular Computing, Spatial Pattern Analysis, Approximation space theory, Perception, Circuit Analysis, Communication, Clustering Algorithms, Analog Circuits, Educational Technology, Higher Education, Computational Geometry, Convexity, Convex Analysis, Convex Geometry, Geoinformatics, Mathematical Modelling, Philosophy Of Science, Teaching, Computational

	Analysis, topology of digital images, Algebra, Algebraic Topology, Algebraic Geometry, Automata
Languages	English, French
Scientific Memberships	American Mathematical Society Institute of Electrical and Electronic Engineers International Rough Set Society
Interests	Microfossils, rock formations, geology, micro-palaeontology, weather patterns, gardening, bird-watching, swimming, walking, biking.

Publication Highlights

James F Peters: *Strong proximities on smooth manifolds and Voronoi diagrams*. Advances in Mathematics 08/2015; 4(2):91-107.

Randima Hettiarachchi, James F. Peters: *Multi-Manifold LLE Learning in Pattern Recognition*. Pattern Recognition 09/2015; 48(9):2947-2960. DOI:10.1016/j.patcog.2015.04.003

James F Peters: *Topology of Digital Images. Visual Pattern Discovery in Proximity Spaces*. 1 edited by Janusz Kacprzyk, Lakhmi C. Jain, 01/2014; Springer., ISBN: ISBN 978-3-642-53844-5 and ISBN 978-3-642-53845-2 (eBook)

James F. Peters: *Local Near Sets: Pattern Discovery in Proximity Spaces*. Mathematics in Computer Science 04/2013; 7:87-106. DOI:10.1007/s11786-013-0143-z

James Peters, Som Naimpally: *Applications of near sets*. Notices of the American Mathematical Society 01/2012; 59(4):536-542.

Books

James F Peters: *Topology of Digital Images. Visual Pattern Discovery in Proximity Spaces*. 1 edited by Janusz Kacprzyk, Lakhmi C. Jain, 01/2014; Springer., ISBN: ISBN 978-3-642-53844-5 and ISBN 978-3-642-53845-2 (eBook)

Somashekhar Naimpally, James Peters: *Topology with Applications. Topological Spaces Near and Far*. 01/2013; World Scientific., ISBN: 13 978-981-4407-65-6

Mariusz Paradowski, Andrzej Śluzek, Sheela Ramanna, Kenneth Revett, James F. Peters, G. P. Nguyen, H. J. Andersen, Nina S. T. Hirata, Jerome Revaud, Guillaume Lavoue, Yasuo Ariki, Atilla Baskurt, Sergio Escalera, David M. J. Tax, Oriol Pujol, Petia Radeva, Robert P. W. Duin, Halina Kwaśnicka, Lakhmi C. Jain, Irina Popovici, Wm. Douglas Withers: *Innovations in Intelligent Image Analysis*. Series: Studies in Computational Intelligence, Vol. 339 edited by Halina Kwasnicka, Lakhmi C. Jain, 01/2011; Springer., ISBN: 78-3-642-17933-4

S.K. Pal, J.F. Peters, P. Maji, H. Fashandi, D. Sen, A.E. Hossanien, H. Al-Quaheri, A. Abraham, W. Tarnawski, G. Schaefer, T. Nakashima, L. Miroslaw, C. Henry, A.H. Meghdadi, S. Shahfar, M.M. Mushrif, A.K. Ray, D. Malyszko, J. Stepaniuk, S. Ramanna: *Rough Fuzzy Image Analysis. Foundations and Applications*. 1st edited by S.K. Pal, J.F. Peters, 01/2010; CRC Press., ISBN: 9781439803295

K.A. Cyran, S. Kozielski, James F. Peters, Urszula Stanczyk, Alicja Wakulicz-Deja: *Man-Machine Interactions*. Advances in Intelligent and Soft Computing, vol. 59 edited by Janusz Kacprzyk, 01/2009; Springer., ISBN: 978-3-642-00562-6

James F. Peters, Andrzej Skowron, Henryk Rybiński: *Transactions on Rough Sets IX*. Edited by James F. Peters, Andrzej Skowron, Henryk Rybiński, 01/2008; Springer.

E. Orlowska, J.F. Peters, G. Rozenberg, A. Skowron, P. Balbiani, D. Vakarelov, J.G. Bazan, P. Kruczek, S. Bazan-Socha, J.J.Pietrzyk, F. Bernardini, R. Brijder, C. Zandron, D. Bianucci, G. Cattaneo, D. Ciucci, W. Buszkowski, M.K. Chakraborty, M. Banerjee, H. Chen, R. Freund, M. Ionescu, B. Paun, M.J. Perez-Jimenez, S. Demri, P. Doherty, A Szalas, D. Dubois, F. Dupin de Saint-Cyr, H. Prade, I. Duntsch, B. Konikowska, M. Dziubinski, R. Verbrugge, B. Dunin-Keplicz, A. Ehrenfeucht, D. Gohring, H.-D. Burkhard, R. Janicki, D.T.M. Le, J. Jarvinen, S. Marcus, A. Mazurkiewicz, M.J. Moshkov, M. Piliszczuk, B. Zielosko, M. Novotny, S. Oshuga, L. Polkowski, S. Ramanna, A. Solomaa, D. Sen, S.K. Pal, W. Skarbek, J. Wonkowski: *New Frontiers in Scientific Discovery. Commemorating the Life and Work of Zdzislaw Pawlak*. 1st edited by E. Orlowska, J.F. Peters, G. Rozenberg, A. Skowron, 08/2007; IOS Press., ISBN: 9781586037178

Marzena Kryszkiewicz, James F. Peters, Henryk Rybinski, Andrzej Skowron: *Rough Sets and Intelligent Systems Paradigms, International Conference, RSEISP 2007, Warsaw, Poland, June 28-30, 2007, Proceedings*. Edited by Marzena Kryszkiewicz, James F. Peters, Henryk Rybinski, Andrzej Skowron, 01/2007; Springer.

Zdzislaw Pawlak, Lofti A. Zadeh, Jan Komorowski, Tsau Young Lin, David W. Russell, Roman Slowinski, Salvatore Greco, Benedetto Matarazzo, I. B. Turksen, Malcolm J. Benyon, Gianpiero Cattaneo, Davide Ciucci, Masahiro Inuiguchi, Ryszard Janicki, Jouni Jarvinen, Radoslaw Katarzyniak, Ngoc Thanh Nguyen, Qing Liu, S. L. Jiang, Herman Midefart, Mikhail Moshkov, Michiniori Nakata, Tetsuya Murai, Lech Polkowski, J. A. Pomykala, F. V. Ramsey, J. J. Alpigini, Zbigniew W Ras, Agnieszka Dardzińska, Wojciech Rzasa, Aida Vitoria, Jan Maluszynski, Guoyin Y. Wang, Maciej Borkowski, Yi-Ting Chiang, T.-S. Hsu, Churn-jung Liau, Da-Wei Wang, H. A. do Prado, P. M. Engel, H. C. Filho, V. Dubois, M. Quafafou, S. Giove, J. Stefanowski, Pawan Lingras, Yangxin Yao, A. Tsoukias, J. J. Valdes, G. Mateescu, James F. Peters, Zbigniew Suraj, M. S. Szcuka, Ronald R. Yager, J. T. Yao, Cory J. Butz, M. J. Sanscartier, Rolly Intan, Masao Mukaidono, Dominik Slezak, J. Wroblewski, Shusako Tsumoto, S. K. M. Wong, D. Wu, J. G. Bazan, Grzegorz Góra, A. Wojna, R. Latkowski, J. F. Martinez, M. Hadjimichael, E. Menaslavas, C. Fernandez, Hung Son Nguyen, José M Peña, Fernando J. Crespo, Víctor Robles, María S. Pérez, R. A. Pons, F. Garcia, J. Carretero, M. L. Cordoba, Andrzej Skowron, Piotr Synak, M. Zhao, J. Wang, Ning Zhong, J.-Z. Dong, S. Ohsuga: *Rough Sets and Current Trends in Computing. 3rd International Conference.*. Lecture Notes in Artificial Intelligence, vol. 2475, Zbl 0978.00041 edited by J.J. Alpigini, J.F. Peters, A. Skowron, N. Zhong, J.G. Carbonell, J. Siekmann, G. Goos, J. Hartmanis, J. van Leeuwen, 01/2002; Springer., ISBN: 3-540-44274-X

Witold Pedrycz, James F. Peters: *Computational Intelligence in Software Engineering*. Advances in Fuzzy Systems--Applications and Theory, vol. 16 edited by Lotfi A. Zadeh, 01/1999; World Scientific., ISBN: 981-02-3503-8/hbk, 978-981-281-615-3/ebook, Zbl 0956.68120

James F. Peters: *The art of assembly language programming VAX-11.*. 01/1985; Reston Publishing company, Inc.., ISBN: 978-0-8359-0184-0

Book Chapters

James F Peters, Andrzej Skowron: *Foreword, Smart Innovation, Systems and Techologies 13*. Emerging Paradigms in Machine Learning, Smart Innovation, Systems and Technologies edited by Sheela Ramanna, Lakhmi C. Jain, Robert J. Howlett, 01/2013: chapter Foreword: pages VII-VIII; Springer., ISBN: 978-3-642-28698-8

Sheela Ramanna, James F. Peters: *Approach Space Framework for Image Database Classification*. 06/2011: pages 75-89;

James F Peters: *Visual perception in image analysis. Digital image content via tolerance near sets*. Innovations in Intelligent Image Analysis. Studies in Computational Intelligence, Edited by H. Kwasnicka et al, 01/2011: chapter Visual perception in image analysis. Digital image content via tolerance near sets: pages 105-125; Springer., ISBN: 978-3-642-17933-4/hbk

James Peters: *Cantor, fuzzy, near, and rough sets in image analysis*. Rough Fuzzy Image Analysis. Foundations and Methodologies, 01/2010: chapter Cantor, fuzzy, near, and rough sets in image analysis: pages 1-12; CRC Press., ISBN: 978-14398-0329-5

James F. Peters, Tony Szturm, Maciej Borkowski, Dan Lockery, Sheela Ramanna, Barbara Shay: *Wireless Adaptive Therapeutic TeleGaming in a Pervasive Computing Environment*. 12/2009: pages 3-28;

Puntip Pattaraintakorn, James F. Peters, Sheela Ramanna: *Capacity-Based Definite Rough Integral and Its Application*. 09/2009: pages 299-308;

A. H. Meghdadi, J. F. Peters, S. Ramanna: *Tolerance Classes in Measuring Image Resemblance*. 09/2009: pages 127-134;

Aboul Ella Hassanien, Ajith Abraham, James F. Peters, Gerald Schaefer: *Rough Sets in Medical Informatics Applications*. 09/2009: pages 23-30;

James F. Peters, Sheela Ramanna: *Affinities between Perceptual Granules: Foundations and Perspectives*. 12/2008: pages 49-66;

Rajen Bhatt, Sheela Ramanna, James F. Peters: *Software Defect Classification: A Comparative Study of Rough-Neuro-fuzzy Hybrid Approaches with Linear and Non-linear SVMs*. 12/2008: pages 213-231;

James F. Peters PhD Full Professor coeditor-in-chief cofounder researcher member: *Rough - Granular Computing*. Handbook of Granular Computing, 07/2008: pages 285 - 327; , ISBN: 9780470724163

Aboul-Ella Hassanien, Ajith Abraham, Janusz Kacprzyk, James F. Peters: *Computational Intelligence in Multimedia Processing: Foundation and Trends*. 04/2008: pages 3-49;

James F Peters: *Approximating and perception in ethology-based reinforcement learning*. Handbook of Granular Computing, First Ed. edited by W. Pedrycz, A. Skowron, v. Kreinovich, 01/2008: chapter Approximation and perception in ethology-based reinforcement learning: pages 671-689; Wiley., ISBN: 978-0-470-03554-2

James F. Peters, Andrzej Skowron: *Zdzisław Pawlak: Life and Work*. 11/2006: pages 1-24;

J. F. Peters, L. Han, S. Ramanna: *Approximate time rough software cost decision system: Multicriteria decision-making approach*. Foundations of Intelligent Systems, 11/2006: pages 556-564;

James F. Peters, Andrzej Skowron: *Some Contributions by Zdzisław Pawlak*. 09/2006: pages 1-11;

James F. Peters, Barbara Dunin-Keplicz, Andrzej Jankowski, Andrzej Skowron, Marcin Szczuka: *Approximation Spaces for Hierarchical Intelligent Behavioral System Models*. 08/2006: pages 13-30;

James F. Peters, Maciej Borkowski, Christopher Henry, Dan Lockery: *Monocular vision system that learns with approximation spaces*. Rough Set Computing: Toward Perception Based Computing, Edited by A. E. Hassanien, D. Slezak, Z. Suraj, P. Lingras, 01/2006: pages 1-22; Idea Group Publishing.

James F. Peters, Maciej Borkowski: *K-means Indiscernibility Relation over Pixels*. 06/2004: pages 580-585;

James F. Peters, T. C. Ahn, Maciej Borkowski: *Obstacle Classification by a Line-Crawling Robot: A Rough Neurocomputing Approach*. 12/2001: pages 83-83;

Zdzisław Pawlak, James F. Peters, Andrzej Skowron, Z. Suraj, S. Ramanna, M. Borkowski: *Rough Measures and Integrals: A Brief Introduction*. 12/2000: pages 375-379;

Andrzej Skowron, Jarosław Stepaniuk, James F. Peters: *Extracting Patterns Using Information Granules: A Brief Introduction*. 12/2000: pages 359-363;

J.F. Peters, S. Ramanna, A. Skowron, M. Borkowski: *Wireless Agent Guidance of Remote Mobile Robots: Rough Integral Approach to Sensor Signal Analysis*. 12/2000: pages 413-422;

J. F. Peters, A. Skowron, L. Han, S. Ramanna: *Towards Rough Neural Computing Based on Rough Membership Functions: Theory and Application*. 12/2000: pages 611-618;

J. F. Peters, A. Skowron, Z. Suraj, L. Han, S. Ramanna: *Design of Rough Neurons: Rough Set Foundation and Petri Net Model*. 12/1999: pages 23-27;

James F. Peters, Witold Pedrycz: *Computational Intelligence*. Wiley Encyclopedia of Electrical and Electronics Engineering, 12/1999; , ISBN: 9780471346081

J. F. Peters, K. Ziaei, S. Ramanna: *Approximate Time Rough Control: Concepts and Application to Satellite Attitude Control*. 12/1997: pages 491-498;

Journal Publications

James F Peters: *Image and scene analysis*. Taylor and Francis Encyclopedia of Image Processing, 2016, to appear.

Randima Hettiarachchi, James F. Peters: *Multi-Manifold LLE Learning in Pattern Recognition*. Pattern Recognition 09/2015; 48(9):2947-2960. DOI:10.1016/j.patcog.2015.04.003

James F Peters: *Strong proximities on smooth manifolds and Voronoi diagrams*. Advances in Mathematics 08/2015; 4(2):91-107.

J. F. Peters, C. Guadagni: *Strong Proximities on Smooth Manifolds and Vorono\" i Diagrams*. 1506, arXiv, no. 4249v2, 2015, 1-16.

G. Beer, A. Di Concilio, G. Di Maio, S. Naimpally, C.M Pareek, J.F. Peters: *Somashekhar Naimpally, 1931–2014*. Topology and its Applications 06/2015; 188:97-109. DOI:10.1016/j.topol.2015.03.010

J. F. Peters, C. Guadagni: *Strongly Proximal Continuity \& Strong Connectedness*. Topology and its Applications, communicated.

J. F. Peters, C. Guadagni: *Strongly Hit and Far Miss Hypertopology and Hit and Strongly Far Miss Hypertopology*. 1504, arXiv, no. 2587v1, 1-8.

J. F. Peters, C. Guadagni: *Strongly near proximity \& hyperspace topology*, PJMS journal, communicated.

James F. Peters: *Visibility in Proximal Delaunay Meshes*. 1501, arXiv, no. 2357v1, 1-6.

James F Peters, Andrzej Skowron, Dominik Slezak, Jan G. Bazan, Hung Son Nguyen: *TRS XIX*.

James F Peters, S. Ramanna: *Proximal three-way decisions: Theory and applications in social networks*. Knowledge-Based Systems 01/2015; DOI:10.1016/j.knosys.2015.07.021

James F Peters: *VISIBILITY IN PROXIMAL DELAUNAY MESHES AND STRONGLY NEAR WALLMAN PROXIMITY*. Advances in Mathematics 01/2015; 4(1):41-47.

James F Peters: *Foreword, Computer Vision in Control Systems-2: Innovations in Practice*. Springer, Berlin, 2015.

James F Peters: *Proximal Voronoi regions, convex polygons, & Leader uniform topology*. Advances in Mathematics 01/2015; 4(1):1-5.

James F. Peters, Mehmet Ali Öztürk, Mustafa Uçkun: *Exactness of proximal groupoid homomorphisms*.

J. F. Peters: *Proximal Delaunay Triangulation Regions*. Proc. Jangjeon Math. Soc., 2015, accepted.

James F. Peters, Mehmet Ali Öztürk, Mustafa Uçkun: *Klee-Phelps Convex Groupoids*.

J. F. Peters: *Proximal Vorono\"i Regions*.

J. F. Peters, M. A. Öztürk, M. Uçkun: *Klee-Phelps Convex Groupoids*.

James F Peters, G. Poli, E. Llapa, J. R. Cecatto, J. H. Saito, S. Ramanna, M.C. Nicoletti: *Solar flare detection system based on tolerance near sets in a GPU–CUDA framework*. Knowledge-Based Systems 11/2014; 70:1-16. DOI:10.1016/j.knosys.2014.07.012

James F Peters, Andrzej Skowron: *Preface, Lecture Notes in Computer Science 8375*. Lecture Notes in Computer Science 03/2014; 8375:V-VI.

Dominik Slezak, Ah-Hwee Tan, James F. Peters, Lars Schwabe: *Brain Informatics and Health*. Lecture Notes in Computer Science 01/2014; 8609:1-595.

James F Peters, Randima Hettiarachchi: *Dimensionality Reduction Via Proximal Manifolds*.

James F Peters: *Proximal Relator Spaces*. Filomat 01/2014; accepted:1-4.

James F. Peters, E. Inan, Mehmet Ali Öztürk: *Spatial and descriptive isometries in proximity spaces*.

James F Peters: *Proximal Manifold Learning via Descriptive Neighbourhood Selection*. Applied Mathematical Sciences 01/2014; 8(71):3513-3517. DOI:10.12988/ams.2014.42111

J. F. Peters, Ebubekir İnan, Mehmet Ali Öztürk: *Spatial and descriptive isometries in proximity spaces*.

James F. Peters, Ebubekir İnan, Mehmet Ali Öztürk: *Spatial and descriptive isometries in proximity spaces*.

James F Peters, Andrzej Skowron: *Transactions on Rough Sets XVII*. Lecture Notes in Computer Science 01/2014; 8375:1-294.

James F Peters: *Foreword, Computer Vision in Control Systems-1 Mathematical Theory*. Springer, Berlin, 2015.

James F. Peters, Ebubekir İnan, Mehmet Ali Öztürk: *Monoids in proximal Banach spaces*.

James F Peters: *Convex Sets in Proximal Relator Spaces*. Filomat 01/2014; 1855(6427):1-4.

Randima Hettiarachchi, James Peters, Niel Bruce: *Fence-like Quasi-periodic Texture Detection in Images*.

James F Peters, Andrzej Skowron, T. Li, Y. Yang, JingTao Yao, H.S. Nguyen: *Preface, Lecture Notes in Computer Science 8449*. Lecture Notes in Computer Science 01/2014; 8449:V-VI.

James F Peters: *Near Sets: An Introduction*. Mathematics in Computer Science 04/2013; 7:3-9. DOI:10.1007/s11786-013-0149-6

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Surabhi Tiwari, James F. Peters: *Sufficiently near L-fuzzy sets*. 03/2013; 22(1):105-112.

H. Fashandi, J.F. Peters: *Crisp and Fuzzy Topological Interior and Closure Operators with Inclusion Degree. Theory and Applications*. Fundamenta Informaticae 01/2013; 122(3):207-225. DOI:10.3233/FI-2013-788

Zhihua Cui, Sheela Ramanna, James F. Peters, Sankar K. Pal: *Cognitive Informatics and Computational Intelligence: Theory and Applications Preface*. Fundamenta Informaticae 01/2013; 124(1-2):V-VIII. DOI:10.3233/FI-2013-821

S. Tiwari, J.F.Peters: *Sufficiently near l-fuzzy sets*. Science in China Series A Mathematics 01/2013; 22(1):1-7.

S.A. Naimpally, J.F. Peters: *Preservation of continuity*. 76, Sci. Math. Japonicae, no. 2, 2013, 305-311.

Randima Hettiarachchi, James Peters: *Visual Motif Patterns in Separation Spaces*. 3, Theory and Application of Mathematics and Computer Science, no. 2, 2013, 36-58.

Surabhi Tiwari, James F Peters: *A New Approach to the Study of Extended Metric Spaces*. 3, Math. Aeterna, no. 7-8, 2013, 565-577.

S.A. Naimpally, J.F. Peters, M. Wolski: *Foreword, Special Issue on Near Set Theory and Applications, Mathematics in Computer Science*. Mathematics in Computer Science 01/2013; 7(1):1-2. DOI:10.1007/s11786-013-0147-8

James F Peters, Andrzej Skowron, Jaroslaw Stepaniuk: *Nearness of Visual Objects. Application of Rough Sets in Proximity Spaces*. Fundamenta Informaticae 01/2013; 128(1-2):1-18. DOI:10.3233/FI-2013-914

James F Peters: *Reasoning with near set-based digital image flow graphs*. Lecture Notes in Computer Science 01/2013; 8271:199-210.

James F. Peters, Surabhi Tiwari, Rashmi Singh: *Approach Merotopies and Associated Near Sets*. 3, Theory and Application of Math. and Computer Science, no. 1, 1-12.

James F Peters: *Nearness of sets in local admissible covers. Theory and application in micropalaeontology*. Fundamenta Informaticae 01/2013; 126:433-444. DOI:10.3233/FI-2013-890

James F Peters, Doungrat Chitcharoen: *Sufficiently Near Neighbourhoods of Points in Flow Graphs. A Near Set Approach*. Fundamenta Informaticae 01/2013; 124(1-2):175-196. DOI:10.3233/FI-2013-830

James F Peters, Sheela Ramanna: *Treasure Trove at Banacha. Set Patterns in Descriptive Proximity Spaces*. Fundamenta Informaticae 01/2013; 127(1-4):1-11. DOI:10.3233/FI-2013-870

James F Peters, Andrzej Skowron, Sheela Ramanna, Zbigniew Suraj, Xin Wang: *Transactions on Rough Sets XVI*. Lecture Notes in Computer Science 01/2013; 7736:1-221. DOI:10.1007/978-3-642-36505-8

James F Peters, Surabhi Tiwari: *Completing extended metric spaces: An alternative approach*. Applied Mathematics Letters 10/2012; 25(10):1544-1547. DOI:10.1016/j.aml.2012.01.012

James F Peters: *Nearness of Objects. Approximation Space Model Revisited*.

James F. Peters, Piotr Wasilewski: *Tolerance spaces: Origins, theoretical aspects and applications*. Information Sciences 07/2012; 195:211-225. DOI:10.1016/j.ins.2012.01.023

Amir H. Meghdadi, James F. Peters: *Perceptual tolerance neighborhood-based similarity in content-based image retrieval and classification*. International Journal of Intelligent Computing and Cybernetics 05/2012; 5(2):164-185. DOI:10.1108/17563781211231525

Jim Peters, Som Naimpally: *Applications of Near Sets*. Notices of the American Mathematical Society 04/2012; 59(4):536-542. DOI:10.1090/noti817

James F Peters: *Transactions on Rough Sets XV*.

James F Peters: *Preface, Transactions on Rough Sets XV*.

James F. Peters, Sheela Ramanna: *Associated Near Sets of Merotopies*.

James F Peters, Andrzej Skowron: *Preface, Lecture Notes in Computer Science 7255*. Lecture Notes in Computer Science 01/2012; 7255:V-VI.

Schaefer, Hu, Huiyu Z, Peters, J.F, Hassanien, AE: *Rough C-means and Fuzzy Rough C-means for Colour Quantisation*. Fundamenta Informaticae 01/2012; 119(1):113-120. DOI:10.3233/FI-2012-729

James F. Peters, Andrzej Skowron, Jaroslaw Stepaniuk: *Rough Sets: Foundations and Perspectives*.

James Peters, Som Naimpally: *Applications of near sets*. Notices of the American Mathematical Society 01/2012; 59(4):536-542.

Sheela Ramanna, Amir H. Meghdadi, James F. Peters: *Nature-inspired framework for measuring visual image resemblance: A near rough set approach*. Theoretical Computer Science 09/2011; 412(42):5926-5938. DOI:10.1016/j.tcs.2011.05.044

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