

Doncho Petkov, Ph.D.

Professor in IS

Refereed Conference Papers and Non-Refereed Papers

PUBLICATIONS IN REFEREED CONFERENCE PROCEEDINGS:

Petkov D. and Petkova O. , An Exploratory Study on the Student Acceptance of the Work System Method as Part of the Systems Analysis and Design Course, Proceedings, ISECON, Nashville, 2010.

Petkov D. and Petkova O. On Design Science, MCDM and IT Outsourcing Decisions, Proceedings CONISAR Conference Washington DC Nov 2009.

Nepal, T and Petkov D. Using a Group Support Systems In Strategic Academic Planning- a Field Experimental Study on the Influence of Facilitation, Proceedings CONISAR Conference Washington DC Nov 2009.

Petkov, D., Petkova, O, Some Suggestions for Further Diffusion of Work System Method Ideas in Systems Analysis and Design, CONISAR Proceedings, Phoenix, November 2008.

Petkov, D., Petkova, O, On Broadening Software Development Productivity Research To serve better Software Engineering Management, International conference on Information Resources Management, 2008, May, Niagara Falls, Canada.

Petkov, D., Petkova, O, Jarmoszko A. and D'Onofrio, M. Using Scoring Rubrics To Assess Student Learning From Projects In Interrelated Information Systems' Courses, *Proceedings of the pre-ICIS IAIM conference*, Montreal, December 2007.

Petkov D., Reflections On Developing And Using Blended Courses In An IS Program, *ISECON 2007 Proceedings*, Pittsburgh, November 2007.

Petkov, D., Systems thinking and Information Systems – some reflections on their relationship, IOneWorld 2007 Conference Proceedings, April

Andrew T. and Petkov, D. Implementation of a Multimethodology Rural Telecommunications Planning Framework: Reflections on the Case Study and Some Lessons Learned, Proceedings of the 12th Australian-New Zealand Systems conference, December 2006.

Petkov D and Petkova O. The Work System Model As A Tool For Understanding The Problem In An Introductory Is Project, *ISECON 2006 Proceedings*, Dallas, November 2006.

Petkov, D., Petkova, O., Andrews, T., and Nepal, T. (2006) "Paradigm Issues in Critical Systems Thinking and Their Interpretation in Three Developmental Systemic Interventions", *Proceedings of the 50th Annual Meeting of the International Society for the Systems Science*, July 9-14th, 2006, Sonoma State University, California, USA.

Nepal T. and Petkov D. An action research oriented systemic framework for the evaluation of rural telecommunications infrastructure, Proceedings *11th Australian-New Zealand Systems conference*, Christchurch, New Zealand 5-7 December 2005.

Mhlabane, M, D. Petkov, T. Nepal, An investigation into performance testing for e-commerce web-based applications, Proceedings 7th Annual Conference on World Wide Web Applications, August 2006, Cape Town, <http://www.uj.ac.za/www2005/index.asp?page=detail&id=3035>.

Averweg, U.R. G.J. Erwin, D. Petkov, Impact of Web-based technologies on EIS in organizations in KwaZulu-Natal, Proceedings 7th Annual Conference on World Wide Web Applications, August 2006, Cape Town, <http://www.uj.ac.za/www2005/index.asp?page=detail&id=3035>.

Petkov D., Petkova O., Andrew T. and Nepal T. On the process of combining soft systems methodologies and other approaches in systemic interventions, *ISOneWorld Conference Refereed Proceedings*, March 30-April 1st 2005, The Information Institute.

Kunene N, Petkov D., Reducing the animosity associated with high-polar group decision environments by reversing traditional procedures to emergent consensus building with the use of GSS embedded capacities (through the AHP and consensus indicators), *ISOneWorld Conference Refereed Proceedings*, March 30-April 1st 2005, The Information Institute.

Petkov, D. , Petkova, O., Andrew, T., & Nepal, T. , Mixing MCDM with Systems Thinking Techniques for Decision Support in Complex Situations, *AIS Decision Support Systems Special Interest Group Workshop Proceedings at ICIS2004* , Washington, DC, December 2004.

Petkov, D. , Petkova, O., & D'Onofrio, M. Comparative Comments on Community Informatics and Community Operations Research ,Proceedings of the *Decision Sciences Institute 2004 Annual Meeting* , Boston, Massachusetts, November 2004

Michele D and Petkov D., Post Implementation Review of an Introduction of WebCT, *ISECON Conference Proceedings*, October 2004, Newport RI.

Petkov, D. , Petkova, O., Andrew, T., & Nepal, T., Some Reflections on Mixing Methodologies in Systemic Interventions in the Information and Telecommunications Technology Sector in South Africa, *Proceedings of the 3rd International Conference on Systems Thinking in Management (ICSTM)* , Ackoff Center, Iniversity of Pennsylvania, Philadelphia, Pennsylvania, May 2004.

Cele, M and Petkov D., A Framework for Strategy Development for a Small Information Technology Company, *Proceedings of the ISOneWorld Conference*, April 14-16, Las Vegas, USA, 2004.

Petkov, D., and Petkova, O., A Critical Review of Past Research of Factors Affecting Software Development Productivity, *Proceedings of IS One World Conference*, April 14-16, Las Vegas, USA, 2004.

Buller, N. and Petkov D., Investigation into the Support of IT to the Business Processes of the University of Natal, Proceedings of the *Conference on Information Science and Technology Management (CISTM 2003)*, Cape Town, South Africa, 28-29 October, organized by the Information Institute, USA.

Petkov, D., and Petkova, O., A Multi Criteria Evaluation of Outsourcing Decision, *Second Annual International Outsourcing Conference*, New York, August 25-26, 2003.

Petkov, D., Petkova, O., D'Onofrio, M., and Fry, G., Assisting Small Information Technology Companies Identify Critical Success Factors in Web Development Projects 9th *AMCIS*, Tampa, Florida, August 4-5, 2003.

Petkova, O., and Petkov, D., Towards Reduction of Subjectivity in the Evaluation of Factors Affecting Software development Productivity, *IS OneWorld Conference Proceedings*, Information Institute, Las Vegas, April 2003.

Andrew, T and Petkov D. , A Case Study on the Initial Enquiry Stage in a Framework for Improved Planning of Rural Telecommunications Infrastructure, *ISOneWorld Conference*, Inf. Institute, Las Vegas, April 2003.

Petkov D., Petkova O., D Onofrio, M. and Fry G., Enabling the application of CSF theory to web development for e-commerce in a regional context, *International Virtual Community Informatics Workshop*, held in conjunction with ICIS2002, Barcelona, Spain, 15 Dec 2002.

Andrew T and D Petkov, A Case study on the implementation of a systemic framework for the planning and design of rural telecommunications infrastructure. *Proceedings of World Congress of the Int Society of Systems Sciences*, Wilby J (eds) China, July 2002.

T Nepal and D Petkov, Towards a soft systems approach to the evaluation of rural telecommunications infrastructure, *IFIP WG8.4 Conference*, Bangalore, India, May 2002

Petkova O and Petkov D, Factors Affecting Software Development Productivity in an Outsourced IT Project, *Global IT Outsourcing Conference*, Atlanta, March 2002.

Petkova O and Petkov D., A holistic approach towards the validation and legitimization of information systems, *12th International WOSC Congress, Pittsburgh* , March 2002.

Kunene, N. and Petkov D. Task Structuring a Brainstorming Group Activity with an AHP-Based Group Support System , *Thirty-Fifth Hawaii International Conference on System Sciences (HICSS-35)*, January 2002.

Nepal T and Petkov D, The Influence of Facilitation in a Group Decision Support Systems Environment, *SAICSIT Conference*, Pretoria 2001.

Andrew, T and Petkov, D, Towards Implementation of an Integrated Planning and Design Framework for Rural Telecommunications: Bridging the Traditional Divide between Hard and Soft Paradigms, *SATNAC Conference 2001*. September 2001, Wild Coast, South Africa.

Petkov D and Nepal T., Towards a framework for better participative decision making in the evaluation of Rural Telecommunications Infrastructure, *SATNAC Conference 2001*, September 2001, South Africa.

Andrew T and D Petkov, A Systemic Multimethodology Framework for Planning and Design of Rural Telecommunications Infrastructure, *Proceedings of Fifth World Multiconference on Systemics, Cybernetics and Informatics*, Callaos, N (ed), Orlando, USA, July 2001.

Petkova O and Petkov D IT outsourcing and the related software development productivity explored through MCDA, *Proceedings of Int ICSC Congress on Intelligent Systems and Applications*, Naghdy F, Kurfen F, Ogata H and Szczerbicky, E. (eds) University of Wollongong, Australia, Dec 12-15 2000, p822-828.

Huntley R, Petkov D, Archer D and Fincham R ,Multi-criteria decision support for risk analysis in evaluating development initiatives: a sensitive coastal area case study in South Africa. *Eco Management and Auditing International Conference*, Manchester Business School, June 2000, p333-342.

Huntley R, Petkov D, Archer D and Fincham R, Soft Systems Thinking and MCDM as tools and techniques to aid in the evaluation of development proposals. *Proceedings Eco Management and Auditing International Conference*, Manchester Business School, June 2000, p131-140.

Andrew T and D Petkov, Planning and design of rural telecommunication infrastructure is planning for a sociotechnical system - some implications. *Proceedings SATNAC Conference 2000*, Cape Town, September 2000.

Andrew T and D Petkov, Towards a Systems thinking Approach to the planning and design of rural telecommunications infrastructure. *Proceedings of World Congress of the Systems Sciences*, Allen J and Wilby J (eds) Toronto, July 2000.

Andrew T and D Petkov, The need for a pluralistic approach to the planning and design of a rural telecommunications system. *Proceedings of Fourth World Multiconference on Systemics, Cybernetics and Informatics*, Callaos, N (ed), Orlando, USA, July 2000.

Petkova, O. and Petkov D., On the validation of a systemic framework for pluralist models of complex problems based on Multimethodology, *Annual Conference of the Decision Sciences Institute*, New Orleans, 20-23 November, 1999.

Petkov, D. and Petkova O., Making decisions in Information Technology Outsourcing, *Fifth International Conference of the Decision Sciences Institute*, Athens, Greece, July 1999 (invited paper).

Petkov D and O Petkova, A Systemic Framework for the Analysis of Academic Computing, in Baic V.B.(ed), *Advances of Systems, Signals, Control and Computers*. IAAMSAAD and the SA branch of the Academy of Nonlinear Sciences, 1998, Vol III, 398-403

Petkov D and McEwan T ,Management Issues in Environmental Problems, in Boshoff C. (Ed). *Proceedings Annual Conference of the Southern Africa Institute for Management Scientists*, University of Port Elizabeth, 1998, 253-264

Petkov D. McEwan T., von Solms S., Vezjak M., Moving Towards Compliance with Standards for Environmental protection - an Example of Mixing Approaches to "Messy" Problems, *Proceedings of the Fourteenth European Meeting on Cybernetics and Systems Research*, Vienna, Austrian Society for Cybernetic Studies., Vol.1, 252-257, 1998.

Petkov D. and O. Petkova. Towards a learning organization: a combination of reengineering and SSM, *Proceedings Fifth Interdisciplinary Information Management Talks IDIMT'97*, Zadorf, R Oldenburg Verlag, Wien-Munchen 1997 , pp 95-108.

Schreuder, P., D. Petkov and L. Haines, Preference Assessment in AHP with Interval Judgments Using Neural Networks, Association for the Advancement of Modeling and Simulation Techniques in Enterprises (AMSE) International Pretoria Conference "*Intelligent Systems '94*", September 1994, ISBN2-909214-605.

Petkov, D., J. Viloen, A Model of the Prioritization of Factors Related to CASE Tools Selection, *Second Int. Information Management Talks*, Kubova Hut, R. Oldenburg Verlag, Wien-Munchen, 1994, ISBN 3-70290394-1 .

Petkov, D.,S.Savova,N.Penchev,V.Rachneva, P.Vladikov. A Two- Level System for Processing of Managerial Information in the National Road Transport Company, International Symposium on the Use of Personal Computers PERSCOMP'87, ITCR,Sofia,1987

INTERNATIONAL CONFERENCE PRESENTATIONS (not refereed):

Petkov, D, Petkova, O. and Kunene, N. , Multicriteria Decision Making and Design Science Applied to Outsourcing Management, International MCDM Conference, Finland, June 2011.

Petkov, D., On the legacy of Russell Ackoff and its relevance for Systems Thinking and Social Entrepreneurship, Panel presentation at International Conference on Social Entrepreneurship, Systems Thinking, & Complexity, Adelphi University, April 2010.

Petkov, D. and Petkova O. A multicriteria model for the selection of activities to outsource, Int Conf on the Analytic Hierarchy Process, Pittsburgh, July 2009.

Steenkamp, A.L., Petkov, D., Petkova O, Nepal, T. On a research Process Model and Supervision Aspects in Postgraduate Education in South Africa and North America, Intl Conf on Postgraduate Supervision, Univ. of Stellenbosch, SA, April 2009.

Faherty, G., Petkov D, Staron, R, Martin E. and France M. A case of using SSM in community revitalization, International Conference on Complexity, Systems Thinking and Social Entrepreneurship, Adelphi University, April 2008.

Petkov D. Integrating the Work System Method and Soft Systems Thinking in an Undergraduate IS Program , presented in a Panel on Systems Thinking, The Work System Method and Soft Systems Thinking in Information Systems, ISOneWorld 2007 Conf.

.Petkov D and Petkova O, Developing rubrics for assessment in IS projects, *ISOneWorld Conference* , March 30-
Petkov D and Petkova O. On the difficulties in practicing multimethodology research, International Symposium on Research Methods, (pre-ICIS2005), Las Vegas, 12.2005

Petkova O, M D'Onofrio and Petkov D. Systems Thinking and Community Operations Research needed for better work in Community Informatics, ITIB Conference, St Petersburg, Russia, June 14-17 2005, organized by Lindsköping University Sweden and St Petersburg State University

Petkov, D. , Petkova O. and D'Onofrio, (2006). M., Moving beyond virtual community informatics, IFIP WG 8.2 OASIS Workshop Milwaukee , December 2006. April 1st 2005, Las Vegas

Petkov D, Petkova O, T Andrew and T Nepal, Mixing methods in systemic interventions – a research agenda, presented at the Applying Systems Thinking, Information Systems, *Operations Research and Management to Social Problems*, A half-day workshop, Friday November 19th 2004, 1 to 6 pm, at Eastern Connecticut State University

D Petkov, D DeTombe, S Brant, O Petkova, R Draman, H Linskog, G Hirsch, S Taylor, Why a combination of theories and insights coming from different disciplines are needed to explain Complex Societal Problems, Panel discussion at the *DSI Conference*, November 2004, Boston.

Averweg, U., Petkov D. and Erwin G. Application of The Technology Acceptance Model to Executive Information Systems: A South African Study, *DSI Conference* November 2004 Boston. (non refereed paper)

Petkov, D. , Averweg, U., Erwin G., Moolman, H., The Impact of Web Based Technologies on Executive Information Systems in South Africa : Some Exploratory Findings, *INFORMS Annual Meeting*, Atlanta, GA, October, 19-22, 2003.

Averweg, U, Petkov D. and Moolman, H., Implementing ERP Software in a South African Municipality: The Post Implementation Stage, *INFORMS Annual Meeting*, Atlanta, GA, October, 19-22, 2003

Petkov, D. and Petkova, O., “On Critical Systems Thinking and Critical Social Theory Applied To Information Systems Research”, *International Symposium on Research Methods- ICIS 2003*, Information Institute, Seattle, December 13, 2003.

Petkova O. and Petkov D. Towards a Pluralist Approach to the Evaluation of Factors Affecting Software Development Productivity, *International Symposium on Research Methods- ISOneWorld*, Information Institute, Las Vegas, April 23, 2003

Cele, M. and Petkov D. The Technology Innovation Audit of a Small IT Company – A First Stage of the Strategy Formulation Process, *EURO/INFORMS Joint International Meeting*, Istanbul, Turkey, July 6-10, 2003.

Petkov D., Jadoo, R and Tucker, K. Combining MCDM and SSM with GIS, *EURO/INFORMS Joint International Meeting*, Istanbul, Turkey, July 6-10, 2003

Petkov, D., Petkova, O., and D'Onofrio, M., "Community Informatics and Community OR", *EURO/INFORMS Joint International Meeting*, Istanbul, Turkey, July 6-10, 2003

Petkov D. and Muponisi, C. Investigation into Perceptions on Fuzzy Judgments in MAUT, *2002 Decision Sciences Institute Annual Conference*, San Diego, Nov 23-26.

Petkov D., Petkova O and Keeka, M, Web DSS on Technology Innovation for Small Businesses Web, *INFORMS Annual Conference*, Miami Beach, November 2001.

Nepal T., Petkov D, Ramdeyal, P K, and Petkova, O., Some Observations From An Application f A Combination Of Brainstorming And AHP In The Formulation Of A Strategic Plan For An Academic Department, *EURO 2001 OR Conference*, Rotterdam, July 2001.

Petkova, O and Petkov D, How A Mixture Of Soft Or Techniques Can Support Legitimization Of An Intervention, *EURO 2001 OR Conference*, Rotterdam, July 2001

Chuntharpursat A, Petkov D, and Archer D., Using Multicriteria Decision Analysis and the Analytic Hierarchy process as Decision Support Tools in Land Suitability with Regard to Natural Resource Management, , *ICORD 2001 (Int. Conference on OR in development, organized by IFORS, Kruger Park, April 2001*

Petkov D and Petkova O, Web based decision support system applied to technology innovation for small businesses, *ICORD 2001 (Int. Conference OR in Development, organized by IFORS, Kruger Park, April 2001.*

Petkov D, Andrew T. and Nepal T, A research program at MLSultan Technikon in decision support in rural telecommunications development, *ICORD 2001 (Int. Conference on OR in development, organized by IFORS, Kruger Park, April 2001.*

Petkov D and Archer D, Improving environmental management decision making at local authority level through a web accessible multicriteria decision support system. *15th Int conference on Multiple Criteria Decision Making*, Ankara, Turkey, July 2000.

Petkov D and Nepal T, On value elicitation for the evaluation of rural telecommunications infrastructure. *European OR Conference*, Budapest, July 2000.

Nepal, T., O Petkova and D Petkov, A comparison between the process of the Analytic Hierarchy Process and Soft Systems Methodology, *Fall Conference of the Institute for Operations Research and Management Science (INFORMS)*, Philadelphia, November 1999.

Petkov, D., T. Nepal, Mixing AHP with soft systems thinking in the evaluation of rural telecommunications, *Fifth Int Symposium on AHP*, Kobe, Japan, August 1999.

McEwan T, Petkov D, and von Solms S, Towards Sustainable production and Consumption in a South African paper Mill, *Proceedings of the 1999 Eco-Management and Auditing Conference*, University of Leeds, United Kingdom, July 1-2, 1999.

McEwan T, Petkov D, O'Neill C and von Solms S, Organizational and Personal Competence and the Implementation of ISO9002 and ISO14000 programs, Proceedings of the 1998 Eco-Management and Auditing Conference, University of Sheffield, United Kingdom, July 2-3, 1998.

Petkova O., Petkov D. Combining Systems Thinking and MCDM in facilitation of organizational learning, 16th European Conference in Operations Research, Brussels, 1998.

Vežjak M., Petkov D. and E A Stuhler, A framework for an advisory system applied to ecological modernisation. 13th International Conference of the Int Society for Multiple Criteria Decision Making, Cape Town, 6-10 January 1997.

Petkov D., On Possible Indicators of Individual Research Output at the university and ways for Its Measurement, The Third International Conference of the Third world Science, Technology and Development Forum, Science and Technology in Reconstruction and Development, University of Natal, 1996

Petkov D. and O. Mihova-Petkova, Problem Structuring in the Analytic Hierarchy Process and Soft Systems Methodology, Fourth International Symposium on the Analytic Hierarchy Process, Burnaby, Canada, 1996.

Schreuder, P., D. Petkov and L. Haines, Experiments with a neural network approach to AHP with Interval Judgments, Fourth Int Symposium on the Analytic Hierarchy Process, Burnaby, Canada, 1996.

Petkov D., K. Wortmann, E. Senior, An Application of Case Based Reasoning to Pre- transportation Handling of Hazardous Waste, 14th World Conference in Operations Research, IFORS'96, Vancouver, Canada, 1996.

Petkov, D. and O. Mihova-Petkova, Towards a New Decision Support Systems Framework for Messy Problems, International Systems Conference "Systems Thinking At Work", Cape Town, 1995.

Petkov, D., G. Finnie, V. Ram, A comparison of Undergraduate Programs in Information Systems in Southern African and North American Universities, International Conference on Computing in Southern Africa CISNA'94, Cape Town, 1994. 7. Petkov, D., On Some Applications of AHP as a Group Decision Support Tool in University Management, 14th EURO Operations Research Conference, Jerusalem, July 1995.

Petkov, D., Factors Affecting Software Development Productivity-an AHP Model with Feedback, TIMS / ORSA Joint Conference, Boston, April 1994.

Petkov, D., Prioritisation of factors Affecting Child Survival in a Third World Environment Using the Analytic Hierarchy Process, XIII World Conference on Operations Research, IFORS'93, Lisbon, Portugal, 12-16 July 1993.

Petkov, D., and N. Penchev. "Managerial Problems in Road Transportation", International Conference on Road Transportation, Varna, 1986.

Petkov, D., and I. Breshkov. "Improvement of the Management of Container Handling in the Port of Russe as a Factor for the Development of Inland-Water Container Transport", International Conference on Inland Water Transport, Russe, 1985.

Petkov, D. "Information Problems Associated with the Development of MIS for the and Railway Container Transportation", International Scientific Conference on the Application of Computers in Railway Transport, Varna, Bulgaria, 1983.

OTHER NATIONAL AND REGIONAL CONFERENCE PRESENTATIONS OR POSTERS IN THE USA, SOUTH AFRICA AND BULGARIA:

61. Petkov, D. and Petkova O., A Design Science Multicriteria Approach for the Selection of IS Outsourcing Providers, Poster CSU Research Conference April 2011.
60. Stoloff, D., Seymour M. and Petkov, D. , Electronic Portfolios using Wordpress and Microsoft Live's SkyDrive to assess the Liberal Arts , CSU Assessment Conference, Danbury, April 2011
59. Sgambato, E. and Petkov, D. Facebook usage by ECSU students and why it matters, Poster CSU Research Conference April 2011
58. Petkov, D. and Petkova, O. Research Directions for Diffusion of Work System Method Ideas in Systems Analysis and Design, paper presented at the CSU Research Conference April. 2010.
57. Petkova O, Petkov D. and D'Onofrio M. (2008) , Implementing an Action Research Agenda in Information Systems Program Assessment Experiences at Two Universities, CSU research conference, ECSU, March.
56. Petkov D and Petkova O. (2008) Maintenance of multimedia CDs and web based teaching materials, CSU Academic Computing Conference, CCSU, April.
55. Petkov D and Petkova O. Using project rubrics for assessment of student learning in interrelated subjects, 10th CSU Faculty Research Conference, WCSU, Danbury, October 14th, 2006.
54. Petkov D. Assessment of student learning in the capstone BIS course, CSU assessment conference poster, 04.2006, (poster) New Britain.
53. Petkov D, Experiences with using WebCT and multimedia CDs in teaching IS, 2006 CSU Acad. Computing Conf., April 2006, Willimantic.
52. Petkov, D., and Petkova, O., "A Multicriteria Model for Decisions on Information Technology Activities to Outsource", 2005 CSU Faculty Research Conference, Central Connecticut State University, October 22, 2005, New Britain, CT, 2005
51. Petkov D. Development of rubrics for projects in the BIS program courses, poster, CSU Assessment conference, 04.2005. (poster). Willimantic.
50. Petkov D, Chandler L., Williams, B., Gimenez, R. and Williams, C. Combining WebCT with video lectures, CSU Academic Computing Conference, Danbury, 2005.
49. Michele, D and Petkov D., On the post-implementation review of how WebCT was introduced at ECSU, CSU Academic Computing Conference, New Britain, 2004
48. T Andrew, D Petkov, Application of a systemic framework for rural telecommunications planning, SATNAC , 2002 , Cape Town.
47. Nepal T and Petkov D., The influence of facilitation in a group decision support systems environment, SAICSIT Annual Conference, Pretoria, September 2001
46. Nepal, T, Ramdeyal P K and Petkov D., Towards the prioritization of factors informing strategic planning in an academic department in a higher education institution, SAIMS Annual Conference, Stellenbosch, September 2001.
45. Quigley W and Petkov D, The use of Soft Systems Thinking to Facilitate the Change process of Tourism Education at a Tertiary Institution. SAIMS Annual Conference, UNISA, November 2000.
44. Petkov D and Petkova O, Combining MCDM and SSM in problem solving interventions. ORSSA Annual Conference, University of Stellenbosch, September 2000.
43. Nxumalo T and Petkov D, The applicability of expert systems for appropriate decision- making in selecting investments for small, medium and micro businesses. CEPPERT 2000 Conference, Durban, August 2000.
42. Jaca R S and Petkov D, Application of Critical Systems Thinking within Telkom(SA) Performance Management Systems. SAIMS Annual Conference, UNISA, November 2000.
41. Gregory J and Petkov D, The theoretical applicability of group support systems to the strategy formulation process of small to medium enterprises. CEPPERT 2000 Conference, Durban, August 2000.
40. Thakur, S. and Petkov D., A multicriteria approach to the design of a course in computer networking, SAICSIT Annual Research Symposium, Johannesburg, November.
39. D. Petkov, O. Petkova, On the theory about legitimization of software project management practices and a case study, SAIMS Annual Conference, University of Stellenbosch, 15-17 September 1999.
38. McEwan T and Petkov D., A Cost Factor Evaluation to The Efficiency of Environmental Management Policies, Proceedings of Systems Practice'98, Annual Conference of the SA Systems Society and the Operational Research

- Society of SA, University of Cape Town, 26-27 November 1998.
37. Petkov D and Petkova O Making Multicriteria Decisions in IT Outsourcing, 10th Annual Conference of the Computer Society of SA, Durban, 3-5 August, 1998.
 36. Petkova O, Pillay K and Petkov D A Systemic Approach to Management Audit, Proceedings of the Biennial Conference of the Southern African Accounting Association, Johannesburg, July, 1998.
 35. Petkov D and Ram V. Soft and Intelligent Computing and its Relevance to the IS Curriculum, Proceedings of the 28th Conference of the SA Computing Lecturer's Association, Stellenbosch, 28-30 June, 1998.
 34. Kunene N and Petkov D On problem structuring in an Electronic Brainstorming (EBS) environment. Proceedings of SAICSIT Annual Research and Development Symposium, University of Natal Press, Cape Town, 1998.
 33. Motilall A., Petkov D., Stewart R., Els L., Improving Research Interaction within the University through the development of an Intranet, SACLA Conference, Stellenbosch, 1998.
 32. Wortmann K L., Petkov D and Senior E. On Indexing in Case Based Reasoning Applied to Pre-transportation of Hazardous Waste Handling, The 1997 National Research and Development Conference of SAICSIT, Vanderbijlpark, 13-14 November 1997.
 30. Petkov D, Petkova O. Information Systems Development and Multicriteria Decision Making/Systems Thinking, The 1997 National Research and Development Conference of SAICSIT, Vanderbijlpark, 13-14 November 1997.
 29. Pothas A., de Wet AG and Petkov D. A comparison of results by GABEK and SAST applied to conceptualization of ideas on the partnership between tertiary institutions and the community in the Kwa Zulu/Natal Midlands Area. ORSSA Annual National Conference. Illovo Beach, 1997
 28. Petkov D., Z. Nxumalo, S. Msimang. Decision Support for the University Student Services Division. ORSSA Annual National Conference. Illovo Beach, 1997
 27. Petkov D. O Petkova, Systems Thinking, Multicriteria Decision Support Systems and the practice of management, Ninth Annual Conference of the SA Inst of Management Scientists, Pietermaritzburg 1997
 26. Petkov D., Systemic Problem Solving and Multi Criteria Decision Making, Systems Conference, UCT, 5-8 November 1996.
 25. Petkov D. and P. Schreuder, A Neural Network Approach to the Problem of Prioritization of factors affecting program productivity under uncertainty, ORSSA annual conference, Mbbane, 8-10 October 1996.
 24. Petkov D. and O. Mihova-Petkova, On Total Systems Intervention as a Systemic Framework for the Organization of the Model Base of a Decision Support Systems Generator, Research symposium of SA Institute of Computer Scientists and Information Technologists, Durban, 1996.
 23. Petkov D. and O. Mihova-Petkova, Some Comparisons of Problem structuring in Artificial Intelligence, the Analytic Hierarchy Process and Soft Systems Methodology, ORSSA National Conference, Broederstroom, 1995.
 22. Mackenzie P. and D. Petkov, Application of Genetic Algorithms to the Traveling Salesman Problem, 3rd Natal CS&IS Conference, 1995.
 21. Wortmann K. and D. Petkov, On Case Representation and Indexing in Case Based Reasoning, 3rd Natal CS&IS Conference, 1995
 20. Petkov, D. and O. Mihova-Petkova, A Network Model for the Prioritization of Factors Affecting Software Development Productivity, Research and Development Symposium of the SA Institute of Computer Scientists and Information Technologists, UNISA, May, 1995.
 19. Wortman, K., D. Petkov and E. Senior, Case Based Reasoning Applied to Pre-Transportation Handling of Hazardous Waste - some preliminary results, Second Annual Natal Conference in Computer Science, Software Engineering and Information Systems, October 14, 1994, University of Natal.
 18. Wortmann, K., E. Senior and D. Petkov, A Case Based Reasoning Intelligent Decision Support System to Assist in Pre-Transport Decisions for Hazardous Waste, Seventh Annual Symposium of the South African Society for Microbiology (Natal branch), University of Natal, 13 October 1994.
 17. Petkov, D. and A. Gialarakis, An Experiment with a Group Decision Support System in the University Environment, Sixth Conference of the Southern African Institute for Management Scientists, Cape Town, September 1994.

16. Haines. L., Petkov D. and P. Schreuder, The Analytic Hierarchy Process with Interval Judgments, Annual Natal Mathematical Conference, 1994.
15. Petkov, D., The Analytic Hierarchy Process and its Application in Information Systems Analysis and Design, South African Computer Lecturers' Association Conference, Tzaneen, 1994.
14. Petkov, D., G.Finnie, V.Ram, Comparison of BIS Courses as Offered in the RSA and the USA, Computer Science and Business Information Systems Miniconference, Univ.of Natal, Pietermaritzburg, September 1993.
13. Petkov, D., L.McCarney, R.Ross, Prioritization of Factors Affecting the Marketing of Upgrades for Personal Computers: an Application of the Analytic Hierarchy Process, Fourth National Marketing Educators Conference, Durban, Sep. 1993.
12. Petkov, D., The Analytic Hierarchy Process as a Tool for the Propagation of Management Policies on the Selection of Information Technology in a Decentralized decision Making Environment, Annual Operational Research Society of SA Conference, 1993.
11. Petkov, D., D. Theessen, E. Price, A Software and Hardware Decision Support System, SACLA Conference, Hunter's Rest, 1993.
10. Petkov, D., A Multicriteria Decision Support System for the Evaluation of Lectureship Applicants, SACLA Conference, Rustenburg, 1992.
9. Petkov, D. Finnie G., V. Ram, Investigation into the Status of Undergraduate Programs in Information Systems in Southern Africa, SACLA Conference, Rustenburg, 1992
8. Petkov D., A Multicriteria Model for the Selection of Financial Planning Software, Fourth Conf.of SAIMS, Bloemfontein, 1992.
7. Petkov, D., Modeling of Factors Affecting Child Survival, Forum on the Rural Urban Interface, Univ. of Natal, Durban, 1991
6. Petkov, D."A Decision Support System for Planning Purposes", Scientific Conference on Planning Techniques, Sofia,1986
5. Petkov, D."Prospects for Unification of Transport Documentation", Second Youth Seminar on Computer Applications in Transportation, Sozopol,1986.
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