

CURRICULUM VITAE



Personal Information

Name **Mitko Kostov**
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Date of birth 20/08/1973
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Academic Grades

Ph.D. Degree in Technical Sciences

- Mar. 2008, Sts Cyril and Methodius University, Skopje, Macedonia
- Thesis: Noise Removal in Nuclear Medicine Images by Using Multiresolution

Master of Science in Electrical Engineering

- May 2000, Sts Cyril and Methodius University, Skopje, Macedonia
- Thesis: A Fast Algorithm for Designing QMF Banks

Diploma Degree in Electrical Engineering

- May 1997, Sts Cyril and Methodius University, Skopje, Macedonia
- Thesis: Designing QMF Banks with linear phase filters

Position

Associate Professor at St. Kliment Ohridski University, Faculty of Technical Sciences, Bitola, Macedonia

Research interest

Wavelet based image processing and denoising, Wavelet based search in image databases, Nuclear medicine images, NPR-QMF banks.

WORK EXPERIENCE

Dates (from-to)	Sep. 1999-now
Name and address of employer	St. Kliment Ohridski University, Faculty of Technical Sciences, Bitola, Macedonia Makedonska Falanga 33, Bitola, Macedonia
Type of business of sector	Higher education
Occupation or position held	▪ Vice-Dean (Sept. 2014 - now)
Main activities and responsibilities	Responsibility for all financial matters, including financial planning and sustainability, resource allocation, monitoring of expenditure to ensure that it is within appropriate levels
Occupation or position held	▪ Head of Dept. of Electrical Engineering (Sept. 2011 – Sept. 2014)
Main activities and responsibilities	Contributing to the achievement of the university and faculty strategic plans by providing effective management and academic leadership within the department
Occupation or position held	▪ Full Professor (Jun. 2018 – now)
Main activities and responsibilities	▪ Associate Professor (Jun. 2013 – Jun. 2018) ▪ Ass. Professor (Jun. 2008 – Jun. 2013) Courses in areas of Electrical engineering, Circuit theory, Signal processing, Telecommunications, Programming, Computer systems and Database Management Systems.
Occupation or position held	▪ Teaching assistant (Mar. 1999 - Jun. 2008)
Main activities and responsibilities	Courses in areas of Electrical engineering, Electronics, Data-Acquisition Systems and Telecommunications.

WORK EXPERIENCE	
Dates (from-to)	Sep. 2011- Sep. 2012
Name and address of employer	FON University, Faculty of Communication and IT, Skopje, Macedonia
Type of business of sector	Higher education
Occupation or position held	<ul style="list-style-type: none"> ▪ Visiting professor (Feb. 2012-Sep. 2012)
Main activities and responsibilities	Courses: Digital data transmission and Computer networks.
Occupation or position held	<ul style="list-style-type: none"> ▪ Visiting professor (Sep. 2011-Feb. 2012)
Main activities and responsibilities	Course: Digital signal processing.
WORK EXPERIENCE	
Dates (from-to)	Mar. 2008- Sep. 2009
Name and address of employer	European University, Faculty of Informatics, Skopje, Macedonia
Type of business of sector	Higher education
Occupation or position held	<ul style="list-style-type: none"> ▪ Visiting professor (Sep. 2008-Feb. 2009)
Main activities and responsibilities	Course: Network operating systems.
Occupation or position held	<ul style="list-style-type: none"> ▪ Visiting professor (Mar. 2008-Sep. 2008)
Main activities and responsibilities	Course: Internet technologies.
WORK EXPERIENCE	
Dates (from-to)	Sep. 1999-Sep. 2005
Name and address of employer	National Extension Agency (NEA), Bitola, Macedonia
Type of business of sector	Agricultural
Occupation or position held	<ul style="list-style-type: none"> ▪ System administrator
Main activities and responsibilities	Developing and creating software and databases; administrator of NEA's multi-user integrated system based on WEB technology, Microsoft Windows Server, SQL Server, IIS.
Academic mobility	
Date	Apr. 2017
Name and address of institution	University of Maribor, Faculty of Electrical Engineering and Computer Science, Maribor, Slovenia
Occupation or position held	<ul style="list-style-type: none"> ▪ Teaching
Main activities and responsibilities	Courses: Communication in automation (university level); Communication in automation (professional level) (grant obtained Erasmus+).
Academic mobility	
Date	Mar. 2009
Name and address of institution	Ghent University, Belgium, Dept. Telecommunications and Information Processing
Occupation or position held	<ul style="list-style-type: none"> ▪ Research
Main activities and responsibilities	Research and establishing joint research initiatives (grant obtained Basileus)
Languages	Macedonian (native), English, Serbian-Croatian, Bulgarian (passive)
Membership in profession. organizations	<ul style="list-style-type: none"> ▪ IEEE (<i>The Institute of Electrical and Electronics Engineers</i>) ▪ Chamber of authorized architects and authorized engineers Macedonia
Publications	<ul style="list-style-type: none"> ▪ V. Ceselkoska and M. Kostov, <i>Problems Collection in Electrical engineering I</i>, Faculty of Technical Sciences, Bitola, Macedonia, 2010; ▪ C. Mitrovski and M. Kostov, <i>Problems Collection in Electronics</i>, Faculty of technical Sciences, Bitola, 2011; ▪ V. Ceselkoska and M. Kostov, <i>Problems Collection in Electrical engineering II</i>, Faculty of Technical Sciences, Bitola, Macedonia, (in preparation); ▪ C. Mitrovski and M. Kostov, <i>Problems Collection in Measurement and Data-Acquisition Systems</i>, Faculty of Technical Sciences, Bitola, (in preparation).

Project	
Title	Introducing Two-Tier Studies in the Field of Metrology, Tempus Project N°JEP_19010_2004
Date	Sep.2005-Aug.2007
Description	The project objective was to reform and up-date undergraduate courses in the field of metrology and electrical measurements at the Faculty of Electrical Engineering (FEE) - Skopje and Faculty of Technical Sciences (FTS) - Bitola and to develop new one-year postgraduate study programme in the field of electrical measurements at FEE – Skopje.
Project partners	Delft University of Technology, The Netherlands, Ss. Cyril and Methodius University, Skopje, Macedonia, AGH University of Science and Technology, Krakow, Poland, University St. Kliment Ohridski – Bitola, Macedonia.
Project	
Title	DRIMS-Development of Regional Interdisciplinary Mechatronics Studies, TEMPUS IV Project N°158644 – DE – JPCR
Date	2009-2012
Description	The project objective was the development of up-to-date interdisciplinary curricula in mechatronic studies that integrate mechanical engineering with electronics and intelligent computer control in the design and manufacture of products and processes with relevance to the labour market needs and the European Bologna process.
Project partners	Aachen University of Applied Sciences, Germany, Vienna University of Technology, Austria, Technical University Sofia, Bulgaria, University of Bergamo, Italy, Ss. Cyril and Methodius University Skopje, Macedonia, University St. Kliment Ohridski Bitola, Macedonia, University of Prishtina, Kosovo, University of Montenegro, Montenegro and industry partners from Germany (APS-European Centre for Mechatronics in Aachen), Bulgaria, Macedonia and Montenegro.
Project	
Title	WamPPP- Waste management curricula development in partnership with public and private sector, Erasmus+ Project 561821-EPP-1-2015-1-RS-EPPKA2-CBHE-JP
Date	2015-2018
Description	The project objective is waste management curricula development in partnership with public and private sector to respond to the urgently needed capacity build-up for the growing waste management (WM) industry.
Project partners	College of Applied Technical Sciences Nis, Serbia, School of Higher Technical Professional Education in Novi Sad, Serbia, College of applied technical science Arandjelovac, Serbia, School of Electrical Engineering and Computer Science of Applied Studies Belgrade, Serbia, College of Vocational Studies Belgrade, Serbia, Technical University of Crete, Greece, University St. Kliment Ohridski Bitola, Macedonia, University of Maribor, Slovenia, Technical University of Ostrava, Czech, Alexander Technological Education Institute of Thessaloniki, Greece.
Projects	
Title	Cross-border collaboration to fight illegal logging and timber trade, 2014, AITOLOS European Cross-border collaboration IPA Grant
Type	Bilateral project between Macedonia and Greece
Date	2014
Description	Project activities are expected to reduce the volume of illegal logged wood that is transferred between the two countries and create active cross-border partnerships.
Project	
Title	Transport policy model as a function of sustainable development of the Republic of Slovenia and Republic of Macedonia
Type	Bilateral project between Macedonia and Greece
Date	2017-2018
Project	
Title	A new Network of European BioImage Analysts to advance life science imaging (NEUBIAS), COST Action CA15124
Date	2016-2020
Description	This Action is a programme for establishing a network of BioImage Analysts (BIAlysts), in order to maximize the impact of advances in imaging technology on the Life-Sciences (LSc), and to boost the productivity of bioimaging-based research projects in Europe.

Project	Magnetic Resonance Imaging Biomarkers for Chronic Kidney Disease, COST Action CA16103
Title	
Date	2017-2021
Description	The overall aim of this Action is to eliminate the main barriers to the broader study, commercial exploitation and clinical use of renal MRI biomarkers
Annex Conference proceedings & Journal papers	
Conference proceedings	<ul style="list-style-type: none"> ▪ Sofija Bogdanova, Mitko Kostov, and Momcilo Bogdanov, "Design of QMF Banks with Reduced Number of Iterations", <i>IEEE Int. Conf. on Signal Processing, Application and Technology, ICSPAT '99</i>, Orlando, USA, Nov. 1999. ▪ Sofija Bogdanova, Mitko Kostov and Momcilo Bogdanov, "Modified version of Chen and Lee's algorithm for the design of QMF banks", <i>Europ. Conf. on Circuit Theory and Design (ECCTD '99)</i>, pp. 1327-1330, Stresa, Italy, 29 Aug.–2 Sept. 1999. ▪ Mitko Kostov and Momcilo Bogdanov, "On the design of IIR digital filters", <i>International Scientific Conference on Energy and Information Systems and Technologies EIST 2001</i>, vol. 2 pp. 482-487, Bitola, Macedonia, Jun. 2001. ▪ Mitko B. Kostov and Mile I. Petkovski, "Estimation of the Line Voltage Disturbance in the Wavelet Domain Processing", <i>Int. Sc. Conf. on Energy and Information Systems and Technologies EIST 2001</i>, vol. 2 pp. 510-515, Bitola, Macedonia, Jun. 2001. ▪ Cvetko D. Mitrovski and Mitko B. Kostov, "On the Preprocessing of Dynamic Nuclear Medicine Images", <i>International Scientific Conference on Information, Communication and Energy Systems and Technologies ICEST 2002</i>, vol. 1 pp. 201-204, Nis, Serbia and Montenegro, Jun. 2002. ▪ Cvetko D. Mitrovski and Mitko B. Kostov, "A Wavelet Domain Approach On Noise Filtration Of Nuclear Medicine Images", <i>International Scientific And Applied Science Conference Electronics ET'2002</i>, vol. 2 pp. 33-38, Sozopol, Bulgaria, Sept. 2002. ▪ Cvetko D. Mitrovski and Mitko B. Kostov, "An Approach For Extracting The Vein And Heart Boundaries From Raw NM Images", <i>VI National Conference ETAI 2003</i>, pp. E69-E72, Ohrid, Macedonia, Sept. 2003. ▪ Vesna Ilievska, Mitko Kostov, Petar Trajkovski "Implementation of the Farm Monitoring System in Macedonia", <i>International conference PACIOLI 11 – New roads for farm accounting and FADN</i>, pp. 96-104, Przysick, Poland, Oct. 2003. ▪ Cvetko D. Mitrovski and Mitko B. Kostov, "On The Radionuclide Movement Depended Filtering Of Nuclear Medicine Images", <i>Fourth International Conference for Informatics and Information Technology 2003</i>, Moliika, Macedonia, Dec. 2003. ▪ Cvetko D. Mitrovski and Mitko B. Kostov, "On the Wavelet Selection for Nuclear Medicine Images Processing", <i>XXXIX International Scientific Conference on Information, Communication and Energy Systems and Technologies</i>, vol.1 pp. 135-138, Bitola, Macedonia, Jun. 2004. ▪ Mitko B. Kostov and Cvetko D. Mitrovski, "On The Denoising Of Nuclear Medicine Chest Region Images", <i>International Scientific And Applied Science Conference Electronics ET'2004</i>, Sozopol, Bulgaria, 22-24 Sept. 2004. ▪ Vesna Ilievska, Mitko Kostov "On the Development of Farm Monitoring System in Macedonia", <i>International conference PACIOLI 13 - Micro Economic Data on Farm Diversification, Rural Businesses and the Intra-generational Transfer</i>, Hardingasete, Norway, Jun. 2005. ▪ Cvetko D. Mitrovski and Mitko B. Kostov, "QMF Filtering Of Nuclear Medicine Heart Region Images", <i>Int. Scientific Conf. on Information, Communication and Energy Systems and Technologies ICEST 2005</i>, Nis, Serbia and Montenegro, Jun. 2005. ▪ C. Mitrovski M. Kostov, "A Wavelet Approach on NM Images Filtering Using Adjacent Images Information", <i>VII National Conference ETAI</i>, Ohrid, Macedonia, Sept. 2005.

Conference proceedings (cont.)

- Cvetko D. Mitrovski and Mitko B. Kostov, "NM Images Filtering Using NPR QMF Filters Dependent on the Images Spectrum", *7th International Conference on Telecommunications in Modern Satellite, Cable and Broadcasting Services*, Nis, Serbia and Montenegro, Sept. 2005.
- Cvetko D. Mitrovski and Mitko B. Kostov, "A Wavelet Based GUI for NM Images Filtering Using Variance-Stabilizing Transformation", *International Scientific Conference on Information, Communication and Energy Systems and Technologies Icest 2006*, Sofia, Bulgaria, Jun. 2006.
- Mitko Kostov, Cvetko Mitrovski, and Momcilo Bogdanov, "Signal Estimation with NPR-QMF Banks and Multiscale Products", *14th Telecommunications Forum TELFOR 2006*, Belgrade, Serbia, Noe. 2006.
- M. Kostov, C. Mitrovski, M. Bogdanov, "Non-uniform Thresholds for Removal of Signal-Dependent Noise in Wavelet Domain", *Int. Scientific Conf. on Information, Communication and Energy Systems and Technologies Icest 2007*, Ohrid, Macedonia, Jun. 2007.
- M. Kostov, C. Mitrovski, M. Bogdanov, "Threshold Estimation for Wavelet Domain Filtering of Signal-dependent Noise", *14th Int. Conf. on Systems, Signals and Image Processing IWSSIP 2007 and 6th EURASIP Conf. Focused on Speech and Image Processing, Multimedia Communications and Services EC-SIPMCS 2007*, pp. 49-52, Maribor, Slovenia, Jun. 2007.
- M. Kostov, C. Mitrovski, M. Bogdanov, "Non-uniform Threshold as an alternative to Uniform Threshold in Denoising in Wavelet Domain", *Int. Scientific Conf. on Information, Communication and Energy Systems and Technologies Icest 2008*, pp. 113-116, Nis, Serbia, Jun. 2008.
- M. Kostov, C. Mitrovski "Wavelet Denoising by Using Linear-Phase NPR-QMF Banks", *Int. Scientific Conf. on Information, Communication and Energy Systems and Technologies Icest 2009*, Veliko Trnovo, Bulgaria, Jun. 2009.
- M. Kostov, C. Mitrovski, "Wavelet Thresholding by Using Multiscale Correlation", *Int. Scientific Conf. on Information, Communication and Energy Systems and Technologies Icest 2010*, Ohrid, Macedonia, Jun. 2010.
- M. Petkovski, M. Kostov, S. Bogdanova, M. Bogdanov, "Adaptive Sampling Algorithm Applied To SCADA Datalog Database Shrinkage", *18th Int. Conf. on Systems, Signals and Image Processing IWSSIP 2011*, Sarajevo, Jun. 2011.
- M. Kostov, M. Petkovski, I. Jolevski, "Fast Querying in Database with Images by Using Multiresolution", *Int. Scientific Conf. on Information, Communication and Energy Systems and Technologies Icest 2011*, Nis, Serbia, Jun. 2011.
- M. Kostov, M. Petkovski, I. Jolevski, "Wavelet-Based Querying in Images Database", *Conf. on Perspectives of Mechatronics Engineering*, Ohrid, Macedonia, Sept. 2012.
- M. Petkovski, M. Kostov, A. Markoski, "Application of Hardware In the Loop simulation in Power Electronics Courses", *Conference on Perspectives of Mechatronics Engineering*, Ohrid, Macedonia, Sept. 2012.
- M. Kostov, M. Petkovski, I. Jolevski, "Application of Multiresolution Technique for Efficient Querying in Images Database", *Summer Symposium For Electronics And Signal Processing - LEOS 2012*, Mavrovo, Macedonia, Sept. 2012.
- M. Petkovski, M. Kostov, "Low Cost Virtual Test Bed Design for Hardware In the Loop Testing of Power Electronic Circuits", *Summer Symposium For Electronics And Signal Processing - LEOS 2012*, Mavrovo, Macedonia, Sept. 2012.
- V. Kostova, R. Markoska, M. Kostov, "AGV Guidance System Simulation with Lego Mindstorm NXT and RobotC", *Int. Scientific Conf. on Information, Communication and Energy Systems and Technologies Icest 2013*, Ohrid, Macedonia, Jun. 2013.
- M. Petkovski, M. Kostov, V. Ceselkoska, "Real Time Measurement and Analysis of Magnetic Field Disturbances", *International Conference on Applied Electromagnetics*, Niš, Serbia, Sept. 2013.
- M. Kostov, A. Markoski, M. Petkovski, R. Markoska, "Plume Boundaries Extraction by Multiresolution and Least Squares Approximation", *International conference on Applied Internet and Information Technologies*, Zrenjanin, Oct. 2013.

Conference proceedings (cont.)

- R.Markoska, M.Kostov, M.Petkovski, A.Markoski, "Cognitive mapping in robotics using genetic algorithms", *International conference on Applied Internet and Information Technologies*, Zrenjanin, Oct. 2013.
- R.Markoska, A.Markoski, M.Kostov, M.Petkovski, "E-maintenance management in e-business processes of digital companies", *International May Conference on Strategic Management*, Bor, 2014.
- M.Kostov, B.Gegov, M.Atanasovski, M.Petkovski, C.Mitrovski, "Power Disturbances Simulation and Analysis in Wavelet Domain", *Int. Scientific Conf. on Information, Communication and Energy Systems and Technologies ICEST 2014*, Nis, Serbia, Jun. 2014.
- M.Kostov, B.Gegov, M.Atanasovski, M.Petkovski, "Short Time Fourier Transform for Power Disturbances Analysis", *Int. Scientific Conf. on Information, Communication and Energy Systems and Technologies ICEST 2015*, Sofia, Bulgaria, Jun. 2015.
- A.Markoski, M.Kostov, R.Markoski, M.Petkovski, "Knowledge Discovery from Plume Rise Images Using Wavelet Transform and Genetic Programming" (oral presentation), *The 8th International Conference on Machine Vision*, Barcelona, Spain, 19-21 Nov. 2015.
- M. Atanasovski, M. Kostov, N. Acevski, B. Arapinoski, E. Kotevska: "Transient Stability of Asynchronous Generator on Distribution Network", *Int. Scientific Conf. on Information, Communication and Energy Systems and Technologies*, Ohrid, Macedonia, Jun. 2016.
- M. Kostov, E. Kotevska, M. Atanasovski G. Janevska: "Content-Based Images Retrieval With Discrete Wavelet Transform", *Int. Scientific Conf. on Information, Communication and Energy Systems and Technologies*, ISSN: 2603-3259 (Print) ISSN: 2603-3267 (Online), pp. 48-51, Nis, Serbia, Jun. 2017.
- M. Atanasovski, M. Kostov: "Correlation Between Power System Load and Air Temperature in Republic of Macedonia", *MAKO CIGRE*, Ohrid, 25-27 Sept. 2017.
- M. Kostov, C. Mitrovski, M. Bogdanov "Noise Removal In Nuclear Medicine Images By Using Multiresolution", *2nd NEUBIAS (Network of European Biolmage Analysts) Conference, COST Action CA15124*, Szeged, Hungary, 31 Jan - 02 Feb 2018.
- M. Atanasovski, M. Kostov, B. Arapinoski, I. Andreevski: "Correlation between Power System Load and Air Temperature in Republic of Macedonia", *Int. Scientific Conf. on Information, Communication and Energy Systems and Technologies*, ISSN: 2603-3259 (Print) ISSN: 2603-3267 (Online), pp. 213-216, Sozopol, Bulgaria, Jun. 2018.
- G. Janevska, M. Kostov: "Possibilities for Open Source Software in Mechatronic Systems Design", *Int. Scientific Conf. on Information, Communication and Energy Systems and Technologies*, ISSN: 2603-3259 (Print) ISSN: 2603-3267 (Online), pp. 343-346, Sozopol, Bulgaria, Jun. 2018.
- M. Atanasovski, B. Arapinoski, M. Kostov: "Calculation Of Dispersed Generation Share In Power And Energy Balance Of Power System", *XI Conference of Electricity Distribution of Serbia with regional participation*, Kopaonik, Serbia, Sept. 2018.
- M. Kostov, C. Mitrovski, and M. Bogdanov, "Non-uniform threshold as an alternative to uniform threshold in denoising in wavelet domain," *Facta Universitatis, Nis, Serbia, Series: Electronics and Energetics*, p-ISSN 0353-3670 (Print), e-ISSN 2217-5997 (Online), COBISS.SR-ID 12826626, vol. 23, no. 1, pp. 139-146, April 2010.
- C. Mitrovski, M. Kostov, "Non-additive Noise Removal by Applying Multiresolution Technique", *Proceedings of papers, Faculty of Technical Sciences Bitola*, Oct. 2011.
- M. Kostov, M. Petkovski, I. Jolevski, "Application of Multiresolution Technique for Efficient Organizing of Databases", *Proceedings of papers, Faculty of Technical Sciences Bitola*, Oct. 2011.
- M. Kostov, M. Petkovski, I. Jolevski, "Images pseudo-hash by using wavelet coefficients," *Annual Journal of Electronics, 2012, ISSN 1314-0078*, vol. 1, pp. 148-151, 19-21, Sept. 2012.
- M. Petkovski, M. Kostov, "Model Based Design and Hardware in the Loop Testing in Power Electronics Courses," *Journal of Association for Information Communication Technology, Education, Science – TEM Journal, ISSN 2217-8309, Vol.1, No.4, pp. 292-296, Nov. 2012.*

Journal papers

Journal papers (cont.)

- M. Kostov, M. Petkovski, V. Ceselkoska "Time response simulation in Labview by solving differential equations", *Proceedings of papers, Faculty of Technical Sciences Bitola*, 2012.
- M. Petkovski, M. Kostov, V. Ceselkoska "Embedded PID Controller In The Loop", *Proceedings of papers, Faculty of Technical Sciences Bitola*, 2012.
- M. Petkovski, M. Kostov, R. Markoska, A. Markoski, "DWT Coefficients Estimation In Images With Missing Samples," *Journal of Association for Information Communication Technology, Education, Science – TEM Journal*, ISSN 2217-8309, Vol.2, No.4, pp. 277-282, Nov. 2013.
- M. Kostov, A. Markoski, M. Petkovski, R. Markoska, "Plume Rise Boundaries Approximation In Wavelet Domain", *Proceedings of papers, Faculty of Technical Sciences Bitola*, 2013.
- M. Petkovski, M. Kostov, V. Ceselkoska "Magnetic Field Disturbances Detection Utilizing Magnetoresistive Sensors In LabView Environment", *Proceedings of papers, Faculty of Technical Sciences Bitola*, 2013.
- R. Markoska, M. Kostov, A. Markoski, M. Petkovski "Specifics Of Debugging In Robotics Through Practical Examples In ROBOTC Debugger", *Proceedings of papers, Faculty of Technical Sciences Bitola*, 2013.
- M. Kostov, V. Kostova, R. Markoska "AGV Guidance System Simulations with a Programmable Robotics Kit", *International Journal Reasoning-based Intelligent Systems*, ISSN 17550564, Vol. 6, No. 2, 2014, (SJR IF (2013) = 0.143).
- M. Petkovski, M. Kostov, V. Ceselkoska, "Real Time Measurement and Analysis of Magnetic Field Disturbances", *Russian Electrical Engineering*, DOI 10.3103/S1068371214120190, Print ISSN 1068-3712, Online ISSN 1934-8010, Volume 85, Issue 12 , pp 794-799, Dec. 2014, (SJR IF (2013) = 0.194).
- M. Kostov, E. Kotevska, M. Atanasovski, "MRA Based Efficient Database Storing and Fast Querying Technique," *Journal of Association for Information Communication Technology, Education, Science – TEM Journal*, ISSN 2217-8309, Vol.6, No.1, pp. 143-146, Feb. 2017.

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