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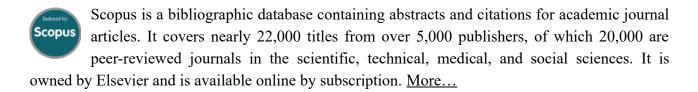
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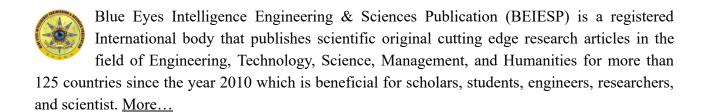
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Associate Professor, Department of Electronics and Communication Engineering, Geetanjali Institute of Science and Technology, Gangavaram, Nellore (Tamil Nadu), India.

Dr. Omid A. Yamini

Professor, Department of Civil Engineering, K. N. Toosi University of Technology, Vali Asr Street, Mirdamad Intersection, Tehran, Iran.

Dr. Atul Kumar

Associate Professor, Department of Computer Science and Engineering, Shri Ram Swaroop Memorial Group of Professional Colleges Luknow (U.P), India.

Dr. C. Vijai

Assistant Professor, Department of Commerce, St.Peter's Institute of Higher Education and Research, Avadi, Chennai (Tamil Nadu), India.

Dr. B. Vinoth

Assistant Professor and Head, Department of Mechanical Engineering, Mangayarkarasi College of Engineering, Madurai (Tamil Nadu), India.

Dr. M Vara Prasad Rao

Professor, Department of Computer Science and Engineering, CMR Technical Campus (Autonomous) Hyderabad (Telangana), India.

Dr. Manoj Sharma

Assistant Professor and Head, Department of Mathematics, Rustamji Institute of Technology, BSF Academy Tekanpur, Gwalior (M.P), India.

Dr. S. Balaji

Assistant Professor, Department of Computer Science and Engineering, Panimalar Engineering College, Chennai (Tamil Nadu), India.

Dr. M. R. Arun

Professor, Department of Computer Applications, PSG College of Technology, Peelamedu, Coimbatore (Tamil Nadu), India.

Dr. V.D.N. Kumar Abbaraju

Assistant Professor, Department of Chemistry, Gitam Institute of Technology Gitam University Visakhapatnam (A.P), India.

Dr. Mallikarjuna Reddy Doodipala

Professor, Department of Mathematics, GITAM University-Hyderabad Campus Rudraram Village, Patan Cheru Mandal Medak Hyderabad (Telangana), India.

Dr. B. Venkata Prasanth

Professor and Principal, Department of Electronics & Electrical Engineering, Sree Dattha

Group of Institutions, Sheriguda (Telangana), India.

Dr. C. Gokul

Associate Professor, Department of Electronics & Electrical Engineering, Velalar College of Engineering and Technology, Erode (Tamil Nadu), India.

Dr. Lakshmi Narayana Thalluri

Assistant Professor, Department of Electrical Communication Engineering, Andhra Loyola Institute of Engineering and Technology, Vijayawada (A.P), India.

Dr. Kshirod Sarmah

Assistant Professor & HOD, Department of Computer Science, Pandit Deendayal Upadhaya Adarsha Mahavidyalaya, Amjonga, Goalpara (Assam), India.

Dr. Ramu Nagarajapillai

Professor, Department of Commerce, Annamalai University Chidambaram (Tamil Nadu), India.

Dr. Anand Kishore Kola

Professor, Department of Chemical Engineering, National Institute of Technology, Warangal (Telangana), India.

Dr. Shrikant M. Harle

Assistant Professor, Department of Civil Engineering, Prof Ram Meghe College of Engineering & Management, Amravati (Maharashtra), India.

Dr. T. Phani Madhavi

Associate Professor & Head, Department of Civil Engineering, Narasaraopeta Engineering College (Autonomous) Narasaraopet, Guntur (A.P), India.

Dr. B. Anil Kumar

Associate Professor, Department of Electrical Communication Engineering, Gokaraju Rangaraju Institute of Engineering & Technology (Autonomous), Hyderabad (Telangana), India.

Dr. Ashish Karn

Assistant Professor, Department of Mechanical Engineering, University of Petroleum and Energy Studies Bidholi, Dehradun (Uttarakhand), India.

Dr. Umesh Gupta

Associate Professor, Department of Mechanical Engineering, Vaish College of Engineering, Rohtak, (Haryana), India.

Dr. R.G.D' Souza

Professor & Principal, Department of Civil Engineering, Yenepoya Institute of Technology Mijar, Thodar Moodbidri (Karnataka), India.

Dr. Shekhar R

Associate Professor, Department of Computer Science & Engineering, Alliance college of Engineering and Design, Alliance University, Bangalore (Karnataka), India.

Dr. M. Kavitha

Associate Professor, Department of Mathematics, KPR Institute of Engineering and Technology, Coimbatore (Tamil Nadu), India.

Dr. G. K. Awari

Professor & Head, Department of Automobile Engineering, Government Polytechnic, Nagpur, (Maharashtra), India.

Dr. K. S. Meenakshisundaram

Former Director, Cresent School of Business, Crescent University, Chennai (Tamil Nadu), India.

Dr. Karthikeyan Parthasarathy

Assistant Professor, School of Management Studies, Kongu Engineering College Erode (Tamil Nadu), India.

Dr. Ramani Kannan

Senior Lecturer, Department of Electrical and Electronics Engineering, Center for Smart Grid Energy Research, Institute of Autonomous system. Universiti Teknologi PETRONAS (UTP), Malaysia.

Dr. Somnath Thigale

Assistant Professor, Department of Computer Science and Engineering, SKN Sinhgad COE Korti-Pandharpur (Maharashtra), India.

Dr. Giriraj Kumar Prajapati

Professor, Department of Electronics Communication Engineering, Sree Chaitanya Institute of Technological Sciences, Karimnagar (Telangana), India.

Dr. M. Madhiarasan

Assistant Professor, Department of Electrical and Electronics Engineering, Bharat Institute of Engineering and Technology, Hyderabad, (Telangana), India.

Dr. R. K. Bathla

Professor, Department of Computer Science & Engineering, Madhav University, Rajasthan, India.

Dr. G. Venkata Rama Subbarao

Associate Professor, Department of Civil Engineering, Velagapudi Ramakrishna Siddhartha Engineering College, Kanuru, Vijayawada (Andhra Pradesh), India.

Dr. Vijay Kumar Sinha

Associate Professor, Department of Computer Science & Engineering, Chandigarh Engineering College, Landran, Mohal (Punjab), India.

Dr. T. Muthumanickam

Professor and Head, Department of Electronics and Communication Engineering, Vinayaka Mission's Kirupananda Variyar Engineering College, Periyaseeragapadi (Tamil Nadu), India.

Dr. Suneel Kumar Singh

Associate Professor & Controller of Examination & Nodal Officer, Red Ribbon Club, Department of Science Modern Institute of Technology Dhalwala, Rishikesh (Uttarakhand), India.

Dr. M. Vamshi Krishna

Associate Dean SOET & H.O.D, Department of Electronics & Communication Engineering, Centurion University of Technology & Management Paralakhemundi, Odisha, India.

Dr. R. Padmavathi

Assistant Professor, Department of Chemistry, Sree Sastha Institute of Engineering and Technology, Chennai (Tamil Nadu), India.

Dr. B. Kavitha Rani

Professor, Department of Computer Science & Engineering, CMR Technical Campus Kandlakoya (V), Medchal (M), Hyderabad (Telengana), India.

Dr. Srinivas Konda

Professor, Department of Computer Science & Engineering, CMR Technical Campus Kandlakoya (V), Medchal (M), Hyderabad (Telengana), India.

Dr. Keyur D. Bhatt

Professor & Head, Department of Chemistry, Mehsana Urban Institute of Sciences, Ganpat University, Kherva (Gujarat), India

Dr. Appala Srinuvasu Mutipati

Associate Professor, Department of Computer Science and Engineering, Raghu Institute of Technology, Dakamarri, Visakhapatnam (A.P.), India

Dr. Froilan D. Mobo

Associate Professor, Designated Assistant Unit Head for General Education Unit, Philippine Merchant Marine Academy, San Narciso, Zambales

Dr. Jaya Christiyan K.G

Professor, Department of Mechanical Engineering, Ramaiah Institute of Technology, Bangalore (Karnataka), India

Dr. Dipti Ranjan Malik

Assistant Professor, Department of Sociology, NIMS University, Jaipur (Rajasthan), India

Dr. Vijaya Lakshmi Pothuraju

Associate Professor, Department of MBA, CMR College of Engineering & Technology, (Autonomous) Kandlakoya, Hyderabad, India

Dr. Ahmmed S. Ibrehem

Assistant Professor, Department of Chemical Engineering, Dhofar University, Salalah, Oman

Dr. K. G. Durga Prasad

Professor & Head, Department of Mechanical Engineering, Technical Campus, GVP College for Degree & P.G.Courses, Rushikonda, Visakahapatnam (Andhra Pradesh), India

Dr. Sucheta Ghorai Giri

Assistant Professor, Department of Microbiology, Parul Institute of Applied Sciences, Parul University, Limda, Vadodara (Gujarat), India

Dr. K. Narendra Kumar

Associate Professor, Department of Computer Science & Engineering, Chalapathi Institute of Engineering and Technology, Lam, (Andhra Pradesh), India

Dr. B. Suresh Babu

Professor, Department of Electrical & Electronics Engineering, Shri Vishnu Engineering College for Women Vishnupur, Bhimavaram (Andhra Pradesh), India

Dr. A. Akila

Assistant Professor, Department of Computer Engineering, Vels Institute of Science, Technology & Advanced Sciences, Pallavaram, Chennai (Tamil Nadu), India

Dr. R. Parameswari

Associate Professor, Department of Computer Engineering, Vels Institute of Science, Technology & Advanced Sciences, Pallavaram, Chennai (Tamil Nadu), India

Dr. Dipak Gade

Program Manager, Department of Computer Engineering, IGATE Solutions Ltd., Pune (Maharashtra), India

Dr. K. Mohan Das

Professor & Head, Department of Civil Engineering, Ashoka Institute of Engineering and Technology, Hyderabad (Telangana), India

Dr. Hitesh V. Paghadar

Associate Professor, Department of Electrical Engineering, OM Engineering College, Chokli (Gujarat), India

Dr. P. Prathap

Professor, Department of Mechanical Engineering, Hindusthan Institute of Technology, Malumichampatty (Tamil Nadu), India

Dr. A. V. Senthil Kumar

Director, Department of Masters in Computer Application, Hindusthan College of Arts and Science, Coimbatore (Tamil Nadu), India

Dr. Rishi Kumar

Assistant Professor, Department of Science, Guru Nanak College, Budhlada (Punjab), India

Dr. Surya Nagendra Pentakota

Associate Professor, Department of Mechanical Engineering, Nadimpalli Satyanarayana Raju Institute of Technology, VIsakhapatna, (Andhra Pradesh), India

Dr. Santanu Koley

Associate Professor, Department of Computer Science and Engineering, Budge Budge Institute of Technology, Nischinta Pur, (West Bengal), India

Dr. Madhuri C. Hingane

Assistant Professor, Department of Computer Science, Pune District Education Association's College of Engineering, Pune (Maharashtra), India

Dr. M. M. Bagali

Professor and Head, Department of MBA, Acharya Institute of Technology, Bangalore (Karnataka), India

Dr. Mayank Jain

Professor, Department of Electronics and Communication Engineering, Sri Indu College of Engineering & Technology, Sheriguda (Telangana), India

Dr. Sharanappa Chapi

Assistant Professor, Department of Physics, K.L.E. Society's J.T. College, Gadag-Betgeri, (Karnataka), India

Dr. A. Vamshi Krishna Reddy

Lecturer, Centre for Environment, Institute of Science & Technology, Jawaharlal Nehru Technological University, Hyderabad (Telangana), India

Dr. Amit Bindaj Karpurapu

Professor, Department of Electronics and Communication Engineering, Swarna Bharathi Institute of Science and Technology (SBIT), Khammam (Telangana), India

Dr. Atul Ramdas Kolhe

Associate Professor, Department of Civil Engineering, Dr. D Y Patil Institute of Engineering Management & Research, Pimpri-Chinchwad (Maharashtra), India

Dr. B. Bazeer Ahamed

Associate Professor, Department of Computer Science and Engineering, Balaji Institute of Technology & Science, Laknepally (Telangana), India

Dr. C. Arunabala

Professor, Department of Electronics and Communication Engineering, KITS (KKR & KSR Institute of Technology & Sciences) Vinjanampadu, Vatticherukuru Mandal, Guntur (Andhra Pradesh), India

Dr. A. Swarupa Rani

Associate Professor, Department of Computer Science, Siddharth institute of Engineering & Technology, Narayanavanam (Andhra Pradesh), India

Dr. S. A. Mohan Krishna

Associate Professor, Department of Information Science and Engineering, Vidyavardhaka College of Engineering, Mysuru (Karnataka), India

Dr. Ashok Koujalagi

Assistant Professor & Postdoctoral Researcher, Department of Computer Science, Basaveshwar Science College, Bagalkot (Karnataka), India

Dr. A. Baradeswaran

Principal, Department of Electronics & Communication Engineering, Madha Engineering College, Chennai (Tamil Nadu), India

Dr. R. Padma Priya

Professor, Department of Electronics & Communication Engineering, Madha Engineering College, Chennai (Tamil Nadu), India

Dr. Raghunath Satpathy

Assistant Professor, Department of Biotechnology, Majhighariani Institute of Technology and Science, Odisha, India

Dr. Hema Chandran K.

Professor & HOD, Department of Electronics & Communication Engineering, Ashoka Institute of Engineering and Technology, Hyderabad (Telangana), India

Dr. M. Rakesh

Assistant Professor, Department of Electronics and Communication Engineering, Vignan's Institute of Management and Technology for Women, Ghatkeser (Hyderabad), India

Dr. Parul Mishra

Assistant Professor, Department of English, GD Goenka University Gurugram, Gurgaon (Haryana), India

Dr. Sunil Kumar Mishra

Associate Professor, Department of Communication Skills (English), Amity University, Gurgaon (Haryana), India

Dr. Kaushik Mukherjee

Faculty of Management Studies, Assistant Professor, AKS University, Satna(MP), India

Dr. Siva Reddy Sheri

Associate Professor, Department of Mathematics, School of Technology Hyderabad Campus, GITAM University, Visakhapatnam (Andhra Pradesh), India.

Dr. Nitasha Soni

Assistant Professor, Department of Computer Science, Manav Rachna International Institute of Research and Studies, Faridabad (Haryana), India.

Dr. Pushpender Sarao

Professor, Department of Computer Science & Engineering, Hyderabad Institute of Technology and Management, Hyderabad (Telangana), India.

Dr. K. Priya

Professor & Head, Department of Commerce, Vivekanandha College of Arts & Sciences for Women (Autonomous, Elayampalayam, Namakkal (Tamil Nadu), India.

Dr. Sunil Tekale

Professor, Dean Academics, Department of Computer Science & Engineering, Malla Reddy College of Engineering, Secunderabad (Telangana), India.

Dr. Brijesh Singh

Senior Yoga Expert and Head, Department of Yoga, Samutakarsha Academy of Yoga, Music & Holistic Living, Prahladnagar, Ahmedabad (Gujarat), India.

Dr. Vinita Kumar

Department of Physics, Dr. D. Ram D A V Public School, Danapur, Patna(Bihar), India

Dr. Rama Shanker

Professor & Head, Department of Statistics, Eritrea Institute of Technology, Asmara, Eritrea

Dr. Subhash Laxman Gadhave

Professor, Department of Mechanical Engineering, Shri Jagdishprasad Jhabarmal Tibrewala University, (Rajasthan) India.

Dr. Raja Mohammad Latif

Professor, Department of Mathematics and Natural Sciences, University of Alberta Edmonton, Canada.

Dr. S.N. Ramaswamy

Professor, Department of Civil Engineering, Kalasalingam University, (Krishnankoil) India.

Dr. G.Mallesh

Professor, Department of Mechanical Engineering, VTU, (karnataka) India

Dr. G.Kiruthiga

Professor, Department of Computer Science and Engineering, Karpagam Academy of Higher Education, (Chitilappilly) Kerala, India.

Dr. Kalpana Chauhan

Professor, Department of Electrical Engineering, IIT Roorkee, (Uttarakhand) India.

Dr. K.Vijaya Kumar

Professor, Department of Library and Information Science, Annamalai University, (Chidambaram) Tamil Nadu, India.

Dr. Ravi K N

Professor, Department of High voltage Engineering, Indian Institute of Science, (Bengaluru) Karnataka, India.

Dr. Pabitra Kumar Biswas

Professor, Department of Electrical Engineering, NIT Durgapur, (West Bengal) India.

Dr. Awari Mahesh Babu

Professor, Department of Civil Engineering, JNTUH Hyderabad, (Telangana) India.

Dr. Qutubuddin S.M.

Professor, Department of Mechanical Engineering, JNTU Hyderabad, (Telangana) India.

Dr. G Komarasamy

Professor, Department of Computer Science and Engineering, Anna University, (Chennai) Tamil Nadu, India.

Dr. Krupal Prabahakar Pawar

Professor, Department of Mechanical Engineering, Sri Satya Sai University of Technology and Medical Sciences, (Madhya Pradesh) India.

Dr. Shasanka Sekhar Rout

Professor, Department of Electronics & Telecommunication Engineering, Veer Surendra Sai University of Technology, (Burla) Odisha, India.

Dr. Dipti Chauhan

Professor, Department of Computer Applications, Maulana Azad National Institute of Technology, Bhopal (M.P) India.

Dr. Hakim S. Sultan Aljibori

Professor, Department of Mechanical Engineering, University of Warith Alanbiyaa, Iraq

Dr. Suneev Anil Bansal

Professor, Department of Mechanical Engineering, Maharaja Agrasen University, Baddi (HP), India.

Dr. Ujwal Lanjewar

Professor, Department of Computer Science and Engineering, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur (Maharashtra), India.

Dr. J. Prakash Arul Jose

Professor and Head, Department of Civil Engineering, Noorul Islam Centre for Higher Education, Kanyakumari (Tamilnadu), India.

Dr. P. Sreenivasulu Reddy

Professor, Department of English language and Literature, Sri Venkateswara University, Tirupati (Andhra Pradesh), India.

Dr. P. Harish N.

Professor, Department of Economics, Tumkur University, Tumakuru (Karnataka), India.

Dr. S. Saranya

Professor, Department of Computer Science and Engineering, Bharathidasan University, Tiruchirappalli (Tamil Nadu), India.

Dr. T. Muthumanickam

Professor, Department of Electronics and Communication Engineering, Vinayaka Mission's Research Foundation, Salem (Tamil Nadu), India.

Dr. Vairavel

Professor, Department of Mechanical Engineering, VELS UNIVERSITY, Pallavaram, Chennai (Tamil Nadu), India.

Dr. Kolla Bhanu Prakash

Professor, Department of Computer Science and Engineering, Sathyabama university, Chennai (Tamil Nadu), India.

Dr. Mallapuram Bala Chennaiah

Professor, Department of Mechanical Engineering, Jawaharlal Nehru Technological University Anantapuramu (Andhra Pradesh), India.

Dr. Yellamma Pachipala

Professor, Department of Computer Science and Engineering, Bharathiar University, Coimbatore (Tamil Nadu), India.

Dr. Neeta Saxena

Professor, Department of Applied Mathematics, Amity University, Gwalior (Madhya Pradesh), India.

Dr. G. Mallesh

Professor, Department of Mechanical Engineering, Visvesvaraya Technological University, Belagavi (Karnataka), India.

Dr. Sandeep Chaware

Professor, Department of Computer Science and Engineering, NMIMS, Vile Parle(West), Mumbai (Maharashtra), India.

Dr. A Sri vani

Professor, Department of Physics, Rayalseema University, Kurnool (AP), India.

Dr. Murali Muniraj

Professor, Department of Electrical and Electronics Engineering, Sona College of Technology, Salem (Tamil Nadu), India.

Dr. T S Nanjundeswaraswamy

Associate Professor, Department of Mechanical Engineering, JSS Academy of Technical Education, Bangalore (Karnataka), India.

Dr. B S Santhosh

Professor, Department of Civil Engineering, Visvesvaraya Technological University, Belagavi (Karnataka), India.

Dr. A. Sulthan Mohideen

Professor, Department of Commerce, Hajee karutha Rowther Howdia College, Uthamapalayam, Theni District, Uthamapalayam (Tamil Nadu), India.

Dr. Vaibhav R. Bhedi

Professor, Department of Computer Science and Engineering, Sant Gadge Baba Amravati University, Amravati (Maharashtra), India.

Dr. Ayad Hameed Mousa

Professor, Department of Computer Science and Engineering, University Utara Malaysia, Changlun, Malaysia.

Dr. M Chrispin Das

Professor, Department of Mechanical Engineering, Anna University, Chennai (Tamil Nadu), India.

Dr. Kammara Bharath Kumar

Professor, Department of Electronics and Communication Engineering, Pondicherry University, Pondicherry (Andhra Pradesh), India.

Dr. Manjunatha N

Professor, Department of Mathematics, Bharathiar University, Coimbatore (Tamil Nadu), India.

Dr. M. Ramajayam

Assistant Professor, Department of General & Adapted Physical Education and Yoga, Periyanaickenpalayam, Coimbatore (Tamil Nadu), India.

Dr. Mohammad Arshad

Professor, Department of Computer Science and Engineering, Koneru Lakshmaiah University, Guntur (Andhra Pradesh), India.

Dr. Maidul Islam

Professor, Department of Management Information Systems, Ajou University, Suwon, South Korea.

Dr. Arup Kumar Hazarika

Professor, Department of Zoology, Cotton University, Panbazar, Guwahati (Assam), India.

Dr. P Venkata Subbareddy

Professor, Department of Computer Science and Engineering, Annamalai University (Tamil Nadu), India.

Dr. Muttipati Appala Srinuvasu

Professor, Department of Computer Science and Engineering, Gitam Deemed To Be University, Gandhi Nagar, Rushikonda Visakhapatnam (Andhra Pradesh), India.

Dr. Namita Gupta

Professor, Department of Economics, MG Kashi Vidyapeeth, Varanasi (Uttar Pradesh), India.

Dr. Chandan Medatwal

Professor, Department of Management, University Of Kota, MBS Marg, Kota (Rajasthan), India.

Dr. Narasimhan D

Professor, Department of Mathematics, Srinivasa Ramanujan Centre Sastra Deemed University Kumbakonam (Tamil Nadu), India.

Dr. Yuriy Pyvovar

Professor, Department of Constitutional and Administrative Law, National Aviation University, Kiev, Ukraine.

Dr. Asim K. Mandal

Professor, Department of Agriculture, Bidhan Chandra Krishi Viswavidyalaya (BCKV), Mohanpur, Nadia (West Bengal), India.

Dr. Lokesh P Gagnani

Professor, Department of Computer Science and Engineering, C U Shah University, Nr. Kothariya Village, Dist. Surendranagar, Wadhwan (Gujarat), India.

Dr. Trilochan Jena

Professor, Department of Civil Engineering, Siksha O Anusandhan (Deemed to be University), ITER, Bhubaneswar (Odisha), India.

Dr. S. Ismail Kalilulah

Professor, Department of Computer Science and Engineering, St. Peter's Engineering College, Avadi, Chennai (Tamil Nadu), India.

Dr. S Vijayakumar

Professor, Department of Computer Science and Engineering, Vellore Institute of Technology, Vellore (Tamil Nadu), India.

Dr. Serhii Kozlovskyi

Professor, Department of Economics, Vasyl' Stus Donetsk National University, Vinnytsia, Ukraine.

Dr. V. Jaiganesh

Professor, Department of Mechanical Engineering, Anna University Chennai (Tamil Nadu), India.

Dr. Mohankumar Namdeorao Bajad

Professor, Department of Civil Engineering, Sardar Vallabhbhai National Institute of Technology, Surat (Gujarat), India.

Dr. G. Purushotham

Professor, Department of Mechanical Engineering Sciences, Visvesvaraya Technological University, Belagavi (Karnataka), India.

Dr. Rajendiran Muthusamy

Professor, Department of Computer Science and Engineering, Sathyabama University, Chennai (Tamil Nadu), India.

Dr. S Madhava Reddy

Professor, Department of Mechanical Engineering, Osmania University, Hyderabad (Telangana), India.

Dr. Siddhartha Choubey

Professor, Department of Computer Science and Engineering, MATS University, Aarang, Raipur (Chhattisgarh), India.

Dr. Ebissa

Professor, Department of Civil Engineering, IIT Roorkee, Roorkee (Uttarakhand), India.

Dr. R. Dhanasekaran

Professor, Department of Mechanical Engineering, Anna University, Chennai (Tamil Nadu), India.

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		[https://www.ijrte.org/wp-content/uploads/papers/v8i2S11/B13460982S1119.pdf]
346.	Authors:	Asri Wijayanti, Bambang Sugeng Ariadi Subagyono, Agus Yudha Hernoko, Zal Vandawati Chumaida, Yayuk Sugiarti
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		content/uploads/papers/v8i2S11/B13470982S1119.pdf]
347.	Authors:	Alvin Yap Chee Wei, Alex Haw Wai Kit, Gabriel YosuaRantung
	Paper Title:	Development of Automated Camera Platform for Optimization of Machine Vision with IoT [https://www.ijrte.org/wcontent/uploads/papers/v8i2S11/B13480982S1119.pdf]
348.	Authors:	Roshan Raman, Naveen Kumar, Ankit Lather, Aditya Panjeta
	Paper Title:	Performance and Emission Analyses of Acetylene Dual Fuel Engige [https://www.ijrte.org/wp-content/uploads/papers/v8i2S11/B13490982S1119.pdf]
349.	Authors:	Khan, Zeenath Reza, Venugopal, Swathi
	Paper Title:	E'ntries All the Way using Online Reflective Journal Writing As Innovative Tool Enhance Student Understanding and Performance in Ethics Courses for Informatic Age [https://www.ijrte.org/wcontent/uploads/papers/v8i2S11/B13500982S1119.pdf]
350.	Authors:	D.Subitha, J.M.Mathana, J.S.Leena Jasmine, R.Vani
	Paper Title:	Modified Conjugate Gradient Algorithms for Gram Matrix Inversion of Massir MIMO Downlink Linear Precoding [https://www.ijrte.org/wcontent/uploads/papers/v8i2S11/B13510982S1119.pdf]
351.	Authors:	Madhan M D, Subitha D, Chandra I
	Paper Title:	Research on Millimeter-wave Microstrip Patch Antenna Design for 5 [https://www.ijrte.org/wp-content/uploads/papers/v8i2S11/B13520982S1119.pdf]
352.	Authors:	RacharlaSunitha, Arulananth T.S
	Paper Title:	Harmful Gases Wireless Network Monitoring System Design [https://www.ijrte.org/wcontent/uploads/papers/v8i2S11/B13530982S1119.pdf]
353.	Authors:	Parameswari.R, Rajeswari.R
	Paper Title:	Magic and Modulo Magicness of Paley Digraph [https://www.ijrte.org/w

Technological Advocacy of Migrant Workers in The Pre Placement Based on Personal Legal Assistance

Asri Wijayanti, Bambang Sugeng Ariadi Subagyono, Agus Yudha Hernoko, Zahri Vandawati Chumaida, Yayuk Sugiarti

Abstract— Equal rights and opportunities discrimination to obtain decent jobs and livelihoods are often underestimated by some countries. The placement of Indonesian migrant workers abroad must receive serious attention. The impact can result in the loss of property to private migrant workers and their families until the loss of life. Legal safeguards are needed in the form of prevention of legal violations through advocacy for assisting Indonesian migrant workers during pre placement on the personal legal based. Due to this fact, our research focuses on how the design of personal legal advocacy can fulfill the right to work and livelihoods that are appropriate for humanity for Indonesian migrant workers. This research used normative juridical with a socio-legal approach in Indonesia. The findings showed that advocacy based on personal legal assistance can be a positive element so that the right to work and a decent living for humanity for Indonesian migrant workers can be fulfilled

Index Terms— Indonesian migrant workers, the right to work, personal legal assistance.

I. INTRODUCTION

Equal rights and opportunities without any discrimination to get jobs and decent livelihoods must become serious attention from all countries. Working abroad is indeed relatively for earning higher wages compares to working in the home country.

The protection of migrant workers and their families is in fact not maximized in Indonesia, China [1] and Canada [2] [3]. There are positive and negative impacts on the existence of migrant workers for Indonesia [4] The positive impact is the increasing of state foreign exchange [4] and work experience. [5] The negative impact on the placement of migrant workers is the loss of property to private migrant workers and their families until the loss of life. [6].

The number of migrant workers who are working abroad has not ascertained yet, depending on the source. [7] There are 283,640 people of migrant workers in 2018 registered by the National Agency for the Placement and Protection of

Indonesian Workers (= BNP2TKI). Documented migrant

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Asri Wijayanti, University Muhammadiyah of Surabaya, Jawa Timur, Indonesia. (Email: asri.wijayanti@fh.um-surabaya.ac.id)

Bambang Sugeng Ariadi Subagyono, Airlangga University, Jawa Timur, Indonesia. (Email: bambang.sas@fh.unair.ac.id)

Agus Yudha Hernoko, Airlangga University, Jawa Timur, Indonesia. Zahri Vandawati Chumaida, Airlangga University, Jawa Timur, Indonesia.

Yayuk Sugiarti, University Wiraraja, Jawa Timur, Indonesia. (Email: yayuksugiarti@wiraraja.ac.id).

workers 2,862,495 while 1,870,060 are not documented as recorded in the Ministry of Foreign Affairs in 2017. The people case was collected by Crisis Center of BNP2TKI PUSLITFO totaling 4,894 in 2015. [8]

The protection of migrant workers has been regulated in Law 18 of 2017 concerning the Protection of Indonesian Migrant Workers jo. Law 13 of 2003 concerning Employment jo. Law No. 6 of 2012 concerning Ratification of the International Convention on the Protection of the Rights of All Migrant Workers and Members of Their Families and Members of Their Families and Members of Their Families) and Law No. 7 of 1984 concerning Ratification of the Convention concerning the Elimination of

All Forms of Discrimination Against Women (Convention on the Elimination of All Forms of Discrimination Against Women). Migrant workers for Indonesia protection is divided into three periods, namely before working, at working and after working. PMI protection is expected to be better if there are protections before the existence of migrant workers abroad. Legal protections are needed in the form of prevention of legal violations through migrant workers assistance advocacy during pre-legal based personal placements. From the description above, the problem arises, how can formal legal-based advocacy technology provide legal protection for migrant workers during the pre-placement period?

II. RESEARCH METHOD

The method of collecting data used a library research. References are taken from articles about migrant workers. Data analysis used deduction with comparison methods between one to another and then drew conclusion to strengthen one of them.

III. LITERATURE REVIEW

A.Equal rights and opportunities without any discrimination to obtain decent work and livelihood

Equal rights and opportunities without discrimination to get jobs and decent livelihoods are part of human rights. Based on Article 6 paragraph (1) of Law 18/2017, migrant worker's rights consist of choosing work in accordance with their competencies; obtaining access to education and



TECHNOLOGICAL ADVOCACY OF MIGRANT WORKERS IN THE PRE PLACEMENT BASED ON PERSONAL LEGAL ASSISTANCE

training; getting an access to correct workplace information; obtaining humane services at work before work, during work and after work; worship; getting a decent wage; legal protection and assistance; communication access; the right of association and assembly; guarantee of work safety and security.

Require the State to intervene in regulating the freedom to choose a place to work. The right to choose a workplace according to competence is the subjective right of every human being and it must be maintained to be protected from interference from outside. Must obtain substantial and procedural protection through regulatory instruments, policies and court decisions..

There are social and individual demands that must be deciphered by the Government in taking actions that encourage the increase of migrant worker protection. Democratic governance can improve the quality of migrant workers for the welfare of workers and their families. The government is also demanded to be able to facilitate the empowerment of migrant workers for Indonesia to be able to realize for their home region, as stated by According to Ryaas Rasyid, "the implementation of regional autonomy is to develop democratic life, encourage efforts to empower communities in development, strengthen the ability and position of local government, improve public services and welfare communities through regional development According to Ryaas Rasyid, "the implementation of regional autonomy is expected to provide great benefits in the life of society, nation and state, especially to develop democratic life, encourage efforts to empower communities in development, strengthen the ability and position of local government, improve public services and welfare community through regional development. [9]

B. Formal legal based assistance technology

Formal legal-based assistance technology is a scientific method carried out by vocal points (assistants) to achieve practical goals [10] in assisting migrant workers for Indonesia when facing legal problems during pre-placement based on personal / fair legal legal (formal) mapping. [11]

The root of the problem facing legal problems during pre-placement can occur in the area of origin until migrant workers is on the border of Indonesia. With formal legal assistance, it can be realized that early prevention of migrant workers placement is predicted to cause problems in the workplace.

Formal legal-based assistance would be carried out optimally by involving socio-economic potential, community potential through empowering community forums facilitated by related sectors and synchronized with original regional planning and supported and carried out thoroughly by all relevant community members.

The legal personal assistance model consists of 4 elements, namely: Assistance in the substance of the related subject matter; assistance in the substance of the related problem; assistance of formal procedures related problems; assistance of related personal procedures

B1. Assistance in the substance of the related subject matter.

Assistance in the substance of related subject matter is a

scientific method carried out by the vocal point (assistant) to assist and help migrant workers in facing legal problems during pre-placement based on appropriate legal mapping in the analysis of related legal subjects (actors). Actors related to the placement of migrant workers during pre-placement are prospective migrant workers, families of migrant workers, companies placed by migrant workers, business partners, employers, social security administrators, the central, local, to village governments. These actors are essentially legal aid providers, legal aid recipients and legal aid providers. A practical guide / module is needed for legal aid providers who will provide advocacy to migrant workers

B2. Assistance in the substance of the related problem

Assistance in the substance of the related problem is a scientific method carried out by the vocal point (assistant) to assist and help migrant workers for Indonesia when facing legal problems during pre-placement based on proper legal mapping on the analysis of related legal objects. Assistance that is based on formal objects includes administrative protection (completeness and validity of the placement documents and determination of conditions and conditions of work) and technical protection (access to information, quality improvement, social security, facilitation of prospective migrant workers for Indonesia rights collection, strengthening the role of relevant officials, integrated services, coaching and supervision)

B3. Assistance of formal procedures related problems

Formal procedure related assistance is a scientific method carried out by vocal points (assistants) to assist and help migrant workers when facing legal problems during pre-placement based on appropriate legal mapping in the analysis of related legal substances. Proper mapping can be done through the stages of gathering facts, to look for initial truths; classify the nature of legal issues; identify and select relevant legal issues; making legal discoveries relating to legal issues and implementing the law

B4. Assistance of related personal procedures & Results

Assistance of related personal procedures is a scientific method carried out by vocal points (assistants) to assist and help migrant workers for Indonesia when facing legal problems during pre-placement based on the psychological conditions of migrant workers for Indonesia and their families. Assistance to personal procedures can be done by applying the principles of local wisdom related to the dispute resolution efforts.

IV. ANALYSIS

Equal rights and opportunities without discrimination to obtain jobs and livelihoods that are suitable for migrants are a very important thing to get legal protection. Migrant workers protection is regulated in the rules of national law and international law. Migrant workers 's protection before work must be a serious concern from the Indonesian government. The existing rules must be implemented through a structured step involving all elements of society.



C. Legal Basis

Migrant workers for Indonesia protection is constitutionally regulated in:

- Article 27 paragraph (2): "Every citizen has the right to work and livelihood that is appropriate for humanity";
- Article 28 D paragraph (1): "Every person has the right to recognition, guarantee, protection and fair legal certainty and equal treatment before the law"; Article 28D Paragraph (2): "Every person has the right to work and receive compensation and fair and proper treatment in work relations.

This provision is further elaborated in several laws and regulations, namely:

- Law No. 39 of 19999 concerning Human Rights jo.
- Law No. 21 of 2000 concerning Labor Unions, jo.
- Law No. 13 of 2003 concerning Employment jo
- Law No. 2 of 2004 concerning the settlement of Industrial Relations Disputes jo.
 - Law No. 40 of 2004 concerning the SJSN
- Law No. 40 of 2007 concerning Limited Liability Companies, jo.
 - Law No. 25 of 2009 concerning Public Services, jo.
 - Law No. 16 of 2011 concerning Legal Aid jo.
 - Law No. 24 of 2011 concerning BPJS
- Law Number 18 Year 2017 concerning Protection of Indonesian Migrant Workers,

D. World Convention

Universal protection of migrant workers is initially contained in the Universal Declaration of Human Rights. It is further elaborated in The International Covenant on Civil and Political Rights (ICCPR) and the International Covenant on Economic, Social and Cultural Rights (ICESCR).

In particular, there are three conventions governing migrant workers, namely the Convention on the Rights of All Migrant Workers and Members of Their Families. Migration for employment (Convention 97 in 1949) and Migrant Workers (Convention 143 of 1975).

E. Discussion

This research has been carried out based on the assistance activities that have been carried out by the Migrant Workers NGO. The assistance process was carried out in an effort to help recover collateral for obtaining decent work and livelihoods. Working is someone's right. A person has the right to be able to work anywhere in accordance with the competencies he has. Protection of migrant workers requires an integrated system, involving the central and regional government and society.

It took the role of the Regional Government to provide integrated one-stop services and facilitate the departure and return of migrant workers that can be implemented through a public service mechanism. Before a migrant worker must have a job competency that is squalid, so that an appropriate job training system was needed.

Formal legal-based assistance would be carried out optimally by involving socio-economic potential, community potential through empowering community forums, facilitated by related sectors and synchronized with original regional planning and supported and carried out thoroughly by all relevant community members.

The model of assistance carried out on formal legal-based

migrant workers consists of 4 elements, namely the substance of the legal subject, the substance of legal objects, formal procedures and personal procedures.

Legal personal assistance based on the substance of the related subject matter to migrant workers is carried out in view of cases that occured in the community to migrant workers before leaving to work for recruitment syndicates, and acts of violence when held in the shelter. Of course many parties that could be involved in the process. The companion's job was to provide education through providing knowledge, understanding and self-strengthening to migrant workers to detect and identify those who have predictions of causing loss of property and life safety. Assistance would be carried out easily if there was openness from migrant workers and their families to tell stories openly to all actors from the legal events experienced by migrant workers. Actors could also include related officials or third parties.

Legal personal assistance based on the object of the related problem to migrant workers was carried out considering that the basis of migrant workers was work competency, so that assistants must carry out legal education through the provision of knowledge, understanding and the ability to empower themselves to continue to carry out work activities. Understanding the documents was included in this matter.

Formal procedure-based legal personal assistance for related problems with migrant workers was carried out through the supervision of the implementation of the work placement procedure stage in accordance with existing legal rules

Personal procedure-based legal personal assistance for related problems with migrant workers carried out through the psychological approach of migrant workers and their families. The four elements of assistance carried out by the companion on the problems experienced by migrant workers before departure are illegal recruitment; document submission; falsifying identities on documents; illegal levies when processing documents in the village; levy imposed by PPPTKIS that are too large; trapped loan sharks before leaving; traded between brokers and PPTKIS; confinement in the shelter because it was made into human stock; extortion by PPTKIS when canceling a work contract; Inadequate shelter conditions while in the shelter are employed at the home of the PPTKIS owner and were not paid on the grounds due to the reason that PKL was difficult to communicate with family; the occurrence of psychological violence and intimidation while being treated; physical violence while in a shelter; sexual harassment while in a shelter; too long waiting for the job order to be held; not given training when in a shelter; training is not done professionally and is merely a formality; uninsured; abuse of work agreement; and neglect of cases when reported to the police

V.CONCLUSION

Advocacy based on personal legal assistance could be a positive element so that the right to work and a decent living for humanity for Indonesian migrant workers can be fulfilled.



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REFERENCES

- Gui, Y., Berry, J. W., & Zheng, Y., "Migrant worker acculturation in China," International Journal of Intercultural Relations, 36(4), p. 598–610, 2012.
- 2. K. Preibisch, "Pick-your-own labor: Migrant workers and flexibility in Canadian agriculture," International Migration Review, 44(2), p. 404–441, 2010.
- 3. L. F. Vosko, "Tenuously Unionised: Temporary Migrant Workers and the Limits of Formal Mechanisms Designed to Promote Collective Bargaining in British Columbia," Industrial Law Journal, 43(4), p. 451–484, 2014.
- 4. H. Yuningrum, "Polemic on Indonesian Workers as a Source of Foreign Exchange (Problematics of Indonesian Workers from the Islamic Aspect)," Economica: Jurnal Ekonomi Islam, 1(2), p. 59, 2017.
- R. Parwadi, "Policy Dissemination of sending Indonesian Migrant Workers Abroad," Jurnal Kebijakan Publik, 3(1), 2013.
- E. Baharudin, "Legal Protection of Migrant Workers Abroad Pre-Departure, Placement and Retirement," Lex Jurnalica, 4(3), 2007.
- A. Hidayah, "Legal Protection of Indonesian Migrant Workers from Time to Time," in National Seminar Paper held by P3HKI- Universitas Flores, Ende, May, 2019.
- R. Nasution, "The JKPS NGO Advocacy Model Against Migrant Workers from Ponorogo District," Masalah-Masalah Hukum, vol. 46, no. 1, pp. 30-40, 2018.
- R. Rashid, "Economic Development Strategy, Social Politics In Perspective of Regional Autonomy," in National Seminar Paper held by Faculty of Law Untirta, Banten, June 2000.
- 10. KBBI, Big Indonesian Dictionary, 2010.
- 11. R. Parwadi, "Policy Dissemination of sending Indonesian Migrant Workers Abroad," Jurnal Kebijakan Publik, 3(1)., 2013

