

Noteworthy Publications by Faculty Members

(A) Journal publications:

No.	Publisher	Name of Faculty Member	Publication Details
1	Elsevier Publication (ScienceDirect), Netherlands	Prof. Jignesh G. Bhatt	<u>"Performance based optimal selection of communication technologies for different smart microgrid applications"</u> , Sustainable Energy Technologies and Assessments (SETA) Journal, Elsevier Editorial System (Science Direct), 5-year Impact Factor: 7.632, Vol. 53, Part A, October, 2022, pp. 1-9, DOI: 10.1016/j.seta.2022.102495
2	River Publishers, Denmark	Prof. Jignesh G. Bhatt	<u>"Optimal wireless technology selection approach for sustainable Indian smart grid"</u> , in Special Issue on Data driven strategic decision making models for renewable and sustainable energies, Volume 40, Issue 3, <i>Strategic Planning for Energy and the Environment Journal (Scopus Indexed)</i> , River Publishers, December 18, 2021, pp. 255-278.
3	River Publishers, Denmark	Prof. Jignesh G. Bhatt	<u>"Optimal wireless technology selection approach for sustainable Indian smart grid"</u> , in Special Issue on Data driven strategic decision making models for renewable and sustainable energies, Volume 40, Issue 3, <i>Strategic Planning for Energy and the Environment Journal (Scopus Indexed)</i> , River Publishers, December 18, 2021, pp. 255-278.
4	Elsevier Publication (ScienceDirect), Netherlands	Prof. Jignesh G. Bhatt	<u>"Design and Development of Wired Building Automation Systems"</u> , Energy and Buildings (ENB), Elsevier Editorial System (ScienceDirect), 5-year Impact Factor: 3.076 . Volume 103, September 2015, pp. 396-413, DOI: 10.1016/j.enbuild.2015.02.054
5	Elsevier Publication (ScienceDirect), Netherlands	Prof. Jignesh G. Bhatt	<u>"Programmable Logic Controller Performance Enhancement by Field Programmable Gate Array based Design"</u> , ISA Transactions (ISATRANS), Elsevier Editorial System (ScienceDirect), 5-year Impact Factor: 2.015 (accepted, in press), DOI: 10.1016/j.isatra.2014.08.019

6	Elsevier Publication (ScienceDirect), Netherlands	Prof. Jignesh G. Bhatt	"An Instrumentation Engineer's Review on Smart Grid: Critical Applications and Parameters" , Renewable and Sustainable Energy Reviews (RSER), Elsevier Editorial System (ScienceDirect), 5-year Impact Factor: 6.796 , Vol. 40, December, 2014, pp. 1217-1239, DOI: 10.1016/j.rser.2014.07.187
7	Dharmsinh Desai University, Nadiad, India	Prof. Jignesh G. Bhatt	"Wireless Sensor Networks for Instrumentation: Recent Trends in Research and Applications Development", Journal of Research in Technology and Management, Special Issue on Research Methodology in Information and Communication Technology, Dharmsinh Desai University (DDU), Nadiad, India, Sept. 2015, pp. 24-29, ISBN: 2278-3121.
8	Hindawi, UK	Prof. (Dr.) Vipul A. Shah	"Bandwidth-Aware Scheduling of Workflow Application on Multiple Grid Sites" , Journal of Computer Networks and Communications, Volume 2014, Article ID 529835, 2014. DOI: 10.1155/2014/529835 (Scopus Indexed)
9	Soil and Water Research Czech Academy of Agricultural Sciences Slezská 7, Czech Republic	Prof. Himanshukumar R. Patel	"Generalized calibration of the Hargreaves equation for evapotranspiration under different climate conditions" , Soil & Water Res., 9(02), 2014, pp. 83-89. DOI: 10.17221/28/2013-SWR Impact Factor: 2.056
10	Chinese Academy of Agricultural Mechanization Sciences (CAAMS), Beijing 100083, China	Prof. Himanshukumar R. Patel	"ECALTOOL: fuzzy logic based computer program to calibrate the Hargreaves equation for accurate estimation of evapotranspiration" , CIGR Journal Vol. 16 No. 3, pp. 245-250, 2014.
11	Taylor & Francis, UK	Prof. (Dr.) Vipul A. Shah	"Induction Motor Relaying Scheme for External Faults Detection and Classification Using Subtractive Clustering Based Sugeno Fuzzy Inference System", Electric Power Components and Systems, 44(10), 1149-1162, 2015. DOI: 10.1080/15325008.2016.1149255 Impact Factor: 1.071

12	Springer, The National Academy of Sciences, India	Prof. Himanshukumar R. Patel	<p><i>"Modified Hargreaves Equation for Accurate Estimation of Evapotranspiration of Diverse Climate Locations in India"</i> Proc. Natl. Acad. Sci., India, Sect. B Biol. Sci. 85(01), pp. 161–166, 2015. DOI: 10.1007/s40011-014-0314-y (Scopus Indexed)</p>
13	University of the Armed Forces ESPE, Ecuador	Prof. Himanshukumar R. Patel	<p><i>"A passive fault-tolerant control strategy for a non-linear system: An application to the two tank conical non-interacting level control system "</i>, Maskay, Vol.9, no.1, May, 2019 DOI: 10.24133/maskay.v9i1.1094 ISSN:1390-6712</p>
14	Energies, MDPI, Open Access Journal, Switzerland	Prof. Himanshukumar R. Patel	<p><i>"Stable Fault Tolerant Controller Design for Takagi Sugeno Fuzzy Model-Based Control Systems via Linear Matrix Inequalities: Three Conical Tank Case Study"</i>, Energies, MDPI, Open Access Journal, vol. 12(11), pages 1-22, June. DOI: 10.3390/en12112221. Impact Factor: 3.004, 5-year Impact Factor: 3.085</p>
15	Taylor & Francis, UK	Prof. Himanshukumar R. Patel	<p><i>"A metaheuristic approach for interval type-2 fuzzy fractional order fault-tolerant controller for a class of uncertain nonlinear system"</i>, Automatika, Taylor & Francis, 63(4), 656-675, 2022 DOI: 10.1080/00051144.2022.2061818 Impact Factor: 1.156</p>
16	IGI Global, USA	Prof. (Dr.) Vipul A. Shah	<p><i>"Ontology Based Expert System for Pests and Disease Management of Cotton Crop in India"</i>, International Journal of Web Portals (IJWP), 10(2), 2018. DOI: 10.4018/IJWP.2018070103 (Scopus Indexed)</p>
17	IOS press, Netherlands	Prof. Himanshukumar R. Patel	<p><i>"Actuator and system component fault tolerant control using interval type-2 Takagi-Sugeno fuzzy controller for hybrid nonlinear process"</i> International Journal of Hybrid Intelligent Systems, Vol. 15(03), pp- 143-153, 2019. DOI: 10.3233/HIS-190267 ISSN 1448-5869 (P) ISSN 1875-8819 (E)</p>

18	Exeley Inc. (New York)	Prof. Himanshukumar R. Patel	<p><i>"Decentralized Stable and Robust Fault Tolerant PI plus Fuzzy Control of MIMO Systems: Quadruple Tank Case Study"</i>, International Journal on Smart Sensing and Intelligent Systems, 12(01), pages 1-20, Exeley Inc. (New York), DOI:10.21307/ijssis-2019-004 (Scopus and Web of Science Indexed)</p>
19	Emerald Publishers UK	Prof. Himanshukumar R. Patel	<p><i>"A Novel Design of Optimal Intelligent Fuzzy TID Controller Employing GA for Nonlinear Level Control Problem Subject to Actuator and System Component Fault"</i> International Journal of Intelligent Computing and Cybernetics, Emerald Publishers, Vol. 14, no. 1, Pages 17-31, UK, DOI: 10.1108/IJICC-08-2020-0104. (Scopus and Web of Science Indexed)</p>

20	Emerald Publishers UK	Prof. Himanshukumar R. Patel	<p><u>"Application of Metaheuristic Algorithms in Interval Type-2 Fractional Order Fuzzy TID controller for Nonlinear Level Control Process under Actuator and System Component Faults"</u>, International Journal of Intelligent Computing and Cybernetics, Vol. 14, no. 1, Pages 33-53, Emerald Publishers, UK, DOI: 10.1108/IJICC-11-2020-0174. (Scopus and Web of Science Indexed)</p>
21	Emerald Publishers UK	Prof. Himanshukumar R. Patel	<p><u>"Stable fuzzy controllers via LMI approach for non-linear systems described by type-2 T-S fuzzy model"</u>, International Journal of Intelligent Computing and Cybernetics, Vol. 14 No. 3, pp. 509-531. DOI: 10.1108/IJICC-02-2021-0024 (Scopus and Web of Science Indexed)</p>
22	Emerald Publishers UK	Prof. Himanshukumar R. Patel	<p><u>"Fuzzy-based metaheuristic algorithm for optimization of fuzzy controller: fault-tolerant control application"</u>, International Journal of Intelligent Computing and Cybernetics, Vol. 14, no. 1, Pages 33-53, Emerald Publishers, UK, DOI: 10.1108/IJICC-09-2021-0204. (Scopus and Web of Science Indexed)</p>
23	Emerald Publishers UK	Prof. Himanshukumar R. Patel	<p><u>"Type-2 Fuzzy Logic Applications Designed For Active Parameter Adaptation in Metaheuristic Algorithm for Fuzzy Fault-Tolerant Controller"</u>, International Journal of Intelligent Computing and Cybernetics, Emerald Publishers, UK, (To be Published June 2022). DOI: 10.1108/IJICC-01-2022-0011. (Scopus and Web of Science Indexed)</p>