



R E V U E R O U M A I N E
D E S
S C I E N C E S T E C H N I Q U E S
SÉRIE
ÉLECTROTECHNIQUE
ET
É N E R G É T I Q U E

Tome 70, 2025, № 3, Juillet–Septembre

Parait quatre fois par an

Revue incluse dans

“Clarivate Analytics Science Citation Index Expanded (also known as SciSearch*) and Journal Citation Reports/Science Edition”

S o m m a i r e

Électrotechnique et électroénergétique | Electrical Engineering and Power Engineering

DANIEL IOAN, Alexandru Timotin, a prominent personality in science.....	289
MUHAMMAD WAQAS, FEZAN RAFIQUE, LING FU, RUIKUN MAI, Synthetic operational data generation for deep learning applications in power transmission lines	295
MOKDAD REMADNIA, MILOUD KACHI, Two-stage inclined-plane electrostatic separator for millimeter-sized particles	301
HELLALI LALLOUANI, MOUSSA OUSSAMA, BOUZIDI ALI, AKKA ALI, Interval type 2 fuzzy logic control for brushless doubly fed induction generator based on wind energy conversion systems	307
ABDELGHAFOUR HERIZI, RIYADH ROUABHI, FAYSSAL OUAGUENI, ABDERRAHIM ZEMMIT, Robust wind power control using sliding mode, backstepping, and fuzzy logic	313
YAZID MADI, ABDELHAKIM DENDOUGA, DJAMAL AOUELLAG, Predictive direct power control of neutral-point clamped converter in wind turbine system with dual three-phase permanent magnet synchronous generator.....	319
GHAZANFAR SHAHGHOLIAN, Dynamic behavior analysis of load frequency control in power systems with hybrid power plants.....	325
BHAVANI SOMASUNDARAM1 SIVAPRAKASAM ARUMUGAM, Sliding mode controlled closed loop quadratic boost converter three phase inverter system fed permanent synchronous motor drive with enhanced response.....	331
VALENTIN ȘTEFĂNESCU, FRANCISC IOAN HATHAZI, GABRIELA RATĂ, CONSTANTIN UNGUREANU, Technical losses caused by poor power quality in electrical networks with nonlinear consumers.....	337
NICOLAE-SILVIU POPA, CIPRIAN POPA, OVIDIU CRISTEA, FLORENȚIU DELIU, MIHAELA-GREȚI MANEA, MIHAI-OCTAVIAN POPESCU, Modeling of albedo for unmanned surface vehicles powered by renewable sources in variable hydrometeorological conditions	343

Électronique et transmission de l'information | Electronics and Information Technology

LAURENTIU IUSTIN BUZINCU, IOAN NICOLAESCU, A novel prototyping approach to broadband microstrip 90 degrees phase shifters	349
ANITHA BOSE, SANTHI NAGARAJAN, Hybrid PNPN-PPN 10T SRAM and leakage control transistors for leakage reduction in VLSI.....	355
MIHAELA GRIB, MIHAI IORDACHE, DRAGOS NICULAE, MARILENA STANCULESCU, LAVINIA BOBARU, ALEXANDRU GRI, Using the Smith diagram in the analysis of high-frequency analog circuits	361
MURALI DURAISAMY, Analysis and experimental validation of a non-isolated DC-DC SEPIC-modified Cuk combined converter	367
MOHAMED-DHIAEDDINE DRID, SAMIR HAMDANI, AMIROUCHE NAIT-SEGHIR, LARBI CHRIFI-ALAQUI, DRISS MEHDI, ABDELLAH KOUZOU, SAID DRID, Fault-tolerant, capable, and scalable two-time-scale boost converter meant for residential areas.....	373
MOHAMMED ZAKARYA BABA-AHMED, RAHMA DJAOUEDA TALEB, MOHAMMED AMIN RABAH, SIDAHMED BENABBOU, MERIEM IKRAM SOUFI, Hybrid design patch antenna for X-band satellite communication.....	379

FAWZI SRAIRI, KHALIL MOKHTARI, KHEIREDDINE CHARA, KAMEL SRAIRI, MOHAMED BENBOUZID, Adaptive synergetic and long-range communication LoRa for quadrotor control and indoor localization via interval analysis.....	385
---	-----

Automatique et ordinateurs | Automatics and computers

MUTHUKUMARAN NARAYANAPERUMAL, VIGNESH ARUMUGAM, Enhancing conversational agents using rotational attention and gated spline modules	391
---	-----

EDEL QUINN JULIN M., VIJAYALAKSHMI SUBRAMANIAN, Strategic load flow assessment for a ship microgrid with photovoltaic power integration	397
---	-----

Thermotechnique et thermoénergétique | Thermal engineering and thermal energy

ALEX-STEFAN VASILIU, LAURENTIU MARIUS DUMITRAN, Effect of superimposed DC and AC electric fields on water vapor condensation in a Corona reactor.	403
--	-----

HERVÉ KLINKLIN BADAKA, DAMGOU MANI KONGNINE, ALEXANDRU M. MOREGA, Heat recovery during biomass pyrolysis provided with a thermoelectric metal plate-based system.	409
--	-----

Génie biomédical | Biomedical engineering

RAJI VARADHAN, RAJENDRAN ELUMALAI, Early identification of blood cancer through automated anomaly detection with a convolutional neural network.	415
---	-----

IULIA-CRISTINA STĂNICĂ, RADU-GIORGIAN CONSTANTIN, IONUT-SEBASTIAN LUTAN, ANDREI-ALEXANDRU CHITU, COSTIN-ANTON BOIANGIU, The impact of artificial intelligence on healthcare.....	421
--	-----

CHRIS-MARIA CIOCĂZANU, DENISA-ELENA NIȚESCU, MIHAELA MOREGA, Useful assumption for simplified numerical analysis of transcranial magnetic stimulation	427
---	-----