

Area efficient design and implementation of a novel divider circuit block = Uudne efektiivne jagamistehte riistvaraline realiseerimine

Patankar, Udayan Sunil 2025 https://www.ester.ee/record=b5746970*est <https://digikogu.taltech.ee/et/Item/bada7a0d-f54f-48bb-844d-37e23ad8d029> <https://doi.org/10.23658/taltech.29/2025>

Area efficient hexadecimal divider circuit implementation based on USP-awadhoot division algorithm

Patankar, Udayan Sunil; Koel, Ants; Patankar, Sunil M.; Flores, Miguel E. IEEE International Conference on Engineering, Technology and Innovation (ICE/ITMC) 2021 / p. 1-8 <https://doi.org/10.1109/ICE/ITMC52061.2021.9570263>

Complex division by Baudhayan triplet algorithm using novel state of the art USP-awadhoot divider

Patankar, Udayan Sunil; Koel, Ants; Patankar, Sunil M.; Flores, Miguel E. IEEE 4th Advanced Information Management, Communicates, Electronic and Automation Control Conference (IMCEC) 2021 / p. 1918-1922 <https://doi.org/10.1109/IMCEC51613.2021.9482010>

Design of two stage high efficiency power amplifier in 0.13um technology for 2.4 GHz ISM band applications

Patankar, Udayan Sunil; Koel, Ants; Rang, Toomas Journal of Advanced Research in Dynamical and Control Systems 2018 / p. 822–829 <http://www.jardcs.org/backissues/abstract.php?archiveid=3585>

Divider implementation based on USP-awadhoot division algorithm For area optimization

Patankar, Udayan Sunil; Koel, Ants; Patankar, Sunil M.; Flores, Miguel E. IEEE 4th Advanced Information Management, Communicates, Electronic and Automation Control Conference (IMCEC) 2021 / p. 1675-1682 <https://doi.org/10.1109/IMCEC51613.2021.9482132>

Division algorithms - from past to present chance to improve area time and complexity for digital applications

Patankar, Udayan Sunil; Flores, Miguel E.; **Koel, Ants** LAEDC 2020 : Latin American Electron Devices Conference, San José, Costa Rica, February 25-28, 2020 2020 / 4 p <https://doi.org/10.1109/LAEDC49063.2020.9073050>

Division Method And Circuit

Patankar, Udayan Sunil; Koel, Ants; Patankar, Sunil; Flores, Miguel E. 2022 <https://www.wipo.int>

Elements of vedic mathematics

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Moving average filter block implementation using USP-Awadhoot divider

Patankar, Udayan Sunil; Flores, Miguel E.; **Koel, Ants**; Patankar, Sunil 2024 19th Biennial Baltic Electronics Conference (BEC) 2024 / 6 p <https://doi.org/10.1109/BEC61458.2024.10737938> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Novel data dependent divider circuit block implementation for complex division and area critical applications

Patankar, Udayan Sunil; Flores, Miguel E.; **Koel, Ants** Scientific reports 2023 / art. 3027, 28 p. : ill <https://doi.org/10.1038/s41598-023-28343-3> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Numerical simulations of wideband SiC N-N heterostructure diode

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Review of - SiC wide-bandgap heterostructure properties as an alternate semiconductor material

Patankar, Udayan Sunil; Rajput Priti, J.; **Koel, Ants**; Nitnaware, V.N. International Conference on Inventive Research in Material Science and Technology, ICIRMCT 2018 : March 23-24, 2018 2018 / art. 020011 <https://doi.org/10.1063/1.5038690> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Review of basic classes of dividers based on division algorithm

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SEU study of wideband heterostructure diode for particle detection

Patankar, Udayan Sunil; Koel, Ants 2021 IEEE International Conference on Consumer Electronics (ICCE) 2021 / 4 p. : ill <https://doi.org/10.1109/ICCE50685.2021.9427613> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Simulations of wide bandgap SiC N-N heterostructure diode

Patankar, Udayan Sunil; Koel, Ants; Pardy, Tamas 2020 IEEE International Conference on Consumer Electronics (ICCE), Las Vegas, NV, USA, January 4-6, 2020 2020 / 4 p <https://doi.org/10.1109/ICCE46568.2020.9043130>

Study of estimation based functional iteration approximation dividers

Patankar, Udayan Sunil; Flores, Miguel E.; **Koel, Ants** ICCE-2021 IEEE International Conference on Consumer Electronics, CES 2021 / p. 1-4 <https://doi.org/10.1109/ICCE50685.2021.9427657> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

