

# Contents

|  |           |
|--|-----------|
| <b>Plenary Talk</b>  | <b>1</b>  |
| Admissibility of Hardcore Restrictions in License Agreements   |           |
| Stefan Stefanov, Mladen Mladenov . . . . .   | 3         |
| <b>Students Session</b>  | <b>11</b> |
| Addressable LED/Buzzer structure as optimization proposal for wearable indicator system increasing visibility and safety of urban E-Bike users |           |
| Devina Manoeva . . . . .   | 13        |
| Counterclaim for invalidity of a trademark in court proceedings for infringement – “for” and “against”   |           |
| Dimitrina Stefanova . . . . .  | 17        |
| Phased Antenna Array Cross-Polarization Tuning   |           |
| Daniel Hristov, Hristomir Yordanov . . . . .   | 21        |
| Requirements for creating an ad-hoc network with nanosatellites  |           |
| Vasil Kumanov . . . . .  | 25        |
| Summary of potential applications of nanofluids  |           |
| Emil Grigorov . . . . .  | 29        |
| <b>General Session</b>   | <b>33</b> |
| Digital Revolution and Economic Society  |           |
| Peter Lang . . . . .   | 35        |
| Model-Based Design of a Cascade Control for Loop Heat Pipes  |           |
| Thomas Gellrich, Sören Hohmann . . . . .   | 39        |
| Smart Factory – Future of Parts Manufacturing – on the way to autonomous, model-based manufacturing  |           |
| Thomas Mücke . . . . .   | 43        |
| Using activity structure analyses to determine waste of resources in maximum-care hospital perioperative medicine                              |           |
| Gerald Götz . . . . .  | 47        |
| Economic Challenges of the Digitalization of Energetics  |           |
| Zwetelina Gankova-Ivanova . . . . .  | 51        |
| <b>Authors Index</b>   | <b>55</b> |