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**List of Publications:**

1. **Advanced communication system: for the survey of rail tracks to improve safety of rail transportation** / Arun Kumar YADAV, Janusz SZPYTKO // Journal of KONES ; ISSN 1231-4005. — 2017 vol. 24 no. 2, s. 315–322. — Bibliogr. s. 321–322, Abstr.. — tekst: [https://kones.eu/ep/2017/vol24/no2/315-322\_J\_O\_KONES\_2017\_NO.\_2,\_VOL.\_24,\_ISSN1231-4005\_YADAY.pdf](https://kones.eu/ep/2017/vol24/no2/315-322_J_O_KONES_2017_NO._2%2C_VOL._24%2C_ISSN1231-4005_YADAY.pdf)
2. ***Design of an automated magnetic wheeled robot for crack inspection of overhead cranes by using NDT & GMR sensor*** / Arun Kumar YADAV, Janusz SZPYTKO // W: *NDE-India 2018 [Dokument elektroniczny]* : *conference & exhibition of the society for NDT (ISNT) : 19–21 December 2018, Mumbai, India*. — Wersja do Windows. — Dane tekstowe. — [India : NDT], [2019]. — S. [1–10]. — Wymagania systemowe: Adobe Reader. — Tryb dostępu
3. ***Design of an automated magnetic wheeled robot for crack inspection of overhead cranes by using NDT & GMR sensor*** / Arun Kumar YADAV, Janusz SZPYTKO // W: *NDE-India 2018 [Dokument elektroniczny]* : *conference & exhibition of the society for NDT (ISNT) : 19–21 December 2018, Mumbai, India*. — Wersja do Windows. — Dane tekstowe. — [India : NDT], [2019]. — S. [1–10]. — Wymagania systemowe: Adobe Reader. — Tryb dostępu
4. ***Development of portable wireless non-destructive crack identification method by using GMR sensor array for overhead crane bridges***/ Arun Kumar YADAV, Janusz SZPYTKO // W: *11\textsuperscript{th} international symposium on NDT in Aerospace* : *Paris, November 13\textsuperscript{th} – 15\textsuperscript{th} 2019 : catalog of abstracts*. — [Paris : NDT], [2019]. — S. 56
5. ***How to connect hyperloop technology with the smart city transportation concept***/ Arun Kumar YADAV, Janusz SZPYTKO // W: *Electric mobility in public transport - driving towards cleaner air* / eds. Krzysztof Krawiec, Sylwester Markusik, Grzegorz Sierpiński. — Cham : Springer Nature Switzerland AG, cop. 2021. — (*Lecture Notes in Intelligent Transportation and Infrastructure* ; ISSN 2523-3440). — ISBN: 978-3-030-67430-4 ; e-ISBN: 978-3-030-67431-1. — S. 201-216. — Bibliogr., Abstr.. — Publikacja dostępna online od: 2021-04-23
6. **Impact of transportation telematics to sustainable development – India and Poland case study** — Wpływ telematyki transportu na zrównoważony rozwój na przykładzie Indii i Polski / Yadav Arun Kumar, SZPYTKO Janusz // W: TST'18 : Transport Systems Telematics : 18th international conference : Kraków, March 20–23, 2018 : conference proceedings. — [Poland] : Polish Association of Transport Telematics, [2018]. — ISBN: 978-83-927821-2-4. — S. 104
7. **Impact of transportation telematics to sustainable development, India and Poland case study** / A. K. YADAV, J. SZPYTKO // Archives of Transport System Telematics ; ISSN 1899-8208. — 2018 vol. 11 iss. 1, s. 53–61. — Bibliogr. s. 60–61
8. **Implementation of intelligent vehicle safety system eCall type, India case study** / A. K. YADAV, J. SZPYTKO // Archives of Transport System Telematics ; ISSN 1899-8208. — 2018 vol. 11 iss. 4, s. 57–60. — Bibliogr. s. 60,
9. **Interoperability tool to the non-destructive testing: crane bridge case study** / Arun Kumar YADAV, Janusz SZPYTKO // W: Projektowanie i eksploatacja maszyn roboczych, Cz. 2 / red. nauk. Tadeusz Łagoda, Marta Kurek, Andrzej Kurek. — Opole : Oficyna Wydawnicza Politechniki Opolskiej, 2020. — (Studia i Monografie / Politechnika Opolska ; ISSN 1429-6063 ; z. 542). — ISBN: 978-83-66033-84-9. — S. 283-294. —
10. **Method of increasing reliability of large dimensional bridge-type structures —** Metoda zwiększenia niezawodności wielkogabarytowych konstrukcji typu mostowego / Arun Kumar YADAV, Janusz SZPYTKO // Journal of KONBiN ; ISSN 1895-8281. — 2022 vol. 52 iss. 2, s. 47–62
11. **Safety problems in vehicles with adaptive cruise control system — Problemy bezpieczeństwa w pojazdach z autonomicznym systemem sterowania** */ Arun K. YADAV, Janusz SZPYTKO // Journal of KONBiN ; ISSN 1895-8281. — 2017 no. 42, s. 389–398. — Bibliogr. s. 397–398****,***
12. **Fault Detection Robotic System: Controlling and Experimental Validation of Overhead Crane Climbing Robot**/ Arun K. YADAV, Janusz SZPYTKO// MMAR, 28th International conference on methods and models in automation and robotics. IEEE ISBN: 979-8-3503-6233-6,
13. **An Innovative fault detection robotic tool for overhead cranes in industries: Magnetic wheel modelling and experimental validation**./ / Arun K. YADAV, Janusz SZPYTKO// International Conference on Innovative Intelligent Industrial Production and Logistics, Springer CCIS series, ISSN 1865-0937,

**From year 2013- 2018**

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| **Year** | **Title** | **Journal Reference** |
| 2017 | **Advanced communication system: for the survey of rail tracks to improve safety of rail transportation** / Arun Kumar YADAV, Janusz SZPYTKO  | Journal of KONES ; ISSN 1231-4005. — 2017 vol. 24 no. 2, s. 315–322. — Bibliogr. s. 321–322, Abstr.. — tekst: [https://kones.eu/ep/2017/vol24/no2/315-322\_J\_O\_KONES\_2017\_NO.\_2,\_VOL.\_24,\_ISSN1231-4005\_YADAY.pdf](https://kones.eu/ep/2017/vol24/no2/315-322_J_O_KONES_2017_NO._2%2C_VOL._24%2C_ISSN1231-4005_YADAY.pdf)  |
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| 2021 | ***How to connect hyperloop technology with the smart city transportation concept***/ Arun Kumar YADAV, Janusz SZPYTKO  | Electric mobility in public transport - driving towards cleaner air / eds. Krzysztof Krawiec, Sylwester Markusik, Grzegorz Sierpiński. — Cham : Springer Nature Switzerland AG, cop. 2021. — (Lecture Notes in Intelligent Transportation and Infrastructure ; ISSN 2523-3440). — ISBN: 978-3-030-67430-4 ; e-ISBN: 978-3-030-67431-1. — S. 201-216. — Bibliogr., Abstr.. — Publikacja dostępna online od: 2021-04-23 |
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| 2020 | **Interoperability tool to the non-destructive testing: crane bridge case study** / Arun Kumar YADAV, Janusz SZPYTKO | Projektowanie i eksploatacja maszyn roboczych, Cz. 2 / red. nauk. Tadeusz Łagoda, Marta Kurek, Andrzej Kurek. — Opole : Oficyna Wydawnicza Politechniki Opolskiej, 2020. — (Studia i Monografie / Politechnika Opolska ; ISSN 1429-6063 ; z. 542). — ISBN: 978-83-66033-84-9. — S. 283-294.  |
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| 2017 | Arun K.Yadav, Jansuz Szpytko : Smart Accident Detection and Rescue Management System for Emergency Vehicles, | Proceedings in UCTE Conference, 12.07.2017. |
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| 2018 | Arun Kumar Yadav, Janusz SZPYTKO : The Design and Implementation of crack detection robot for overhead crane bridges”  | Proceedings in IMKEO 2018 |
| 2018 | Arun Kumar Yadav, Janusz SZPYTKO : Impact of transportation telematics on sustainable development : India & Poland Case study | TST 2018. |