

5th Conference



Renewable Energy Sources - Research and Business (RESRB) 2020

Venue

Brussels, Belgium

Date

6-7 July 2020

CALL FOR ABSTRACTS

Table of contents

Invitation	3
Scope	3
Themes	3
International Scientific Committee (ISC)	4
Scientific Advisory Board (SAB)	4
Organising Committee.....	8
Conference founder	Błąd! Nie zdefiniowano zakładki.
Executive organiser	8
Patrons	8
Website	8
Conference structure	8
Types of abstracts.....	9
Publications	9
Full paper processing.....	11
Acknowledgments	11
Oral lecture requirements.....	11
Short communication/virtual short communication requirements	11
Business participation	12
Sponsorship, exhibition and donation	Błąd! Nie zdefiniowano zakładki.
Roles of conference participants.....	12
Important dates.....	12
Conference fees.....	13
Payment instructions.....	13
Cancelation policy	13
In-person vs. virtual participation	13
Special fee reduction programme	14
Registration	14
Certificates.....	14
Participant's steps in brief.....	14
Ethical considerations	14
Venue	15
Logistics	15
Accommodation	15
Programme	15
Conference language.....	17
Collaboration	17
Contact details.....	17

Invitation

The Conference Chair, International Scientific Committee and Scientific Advisory Board cordially invite you to communicate your recent research, share your expertise or strengthen your business at RESRB.

Scope

The **Renewable Energy Sources - Research and Business (RESRB)** conference is designed as a platform for reporting, discussing, improving and disseminating recent developments in renewable energy science, technology, business and policy. Participants from various organisations such as universities, institutes, NGOs, associations, industries etc. are invited. It is an international event with ambitions to share leading research expertise and facilitate business development and thus to be one of the most influential renewable energy knowledge transfer channels. The conference is a must for research groups at the cutting edge of renewable energy science, technology, policy and business development. The conference through its unique research & business model will facilitate synergies between academia and commercial sectors. Delegates from enterprises seeking innovations and expanding to new markets may benefit from sponsoring, exhibiting and networking thus improving their business environment. RESRB is particularly focused on countries applying green growth policies and plays the role in informing policymaking processes. The participation mode can be either in-person or virtual. Publication will be on Book of Abstracts, Proceedings, journals, edited books and books.

Themes

The **5th RESRB 2020** conference focuses on five key renewable energy areas: (1) bioenergy, (2) wind, (3) solar, (4) hydro and their (5) business development.

The special theme for the 5th RESRB 2020 is:

- Innovation Driven Renewable Energy Development

Other main themes are:

- Renewable Energy Harvesting Technologies
- Renewable Energy Economics, Business, Policy and Management
- Innovation in Renewable Energy Projects
- Renewable Hydrogen for Mobility and Household Applications

Additional RESRB themes include:

- Solar photovoltaics
- Wind
- Hydro
- Solar thermal
- Concentrated solar power
- Geothermal energy
- Wave, tide and other marine energies
- Biofuels
- Heat pumps
- Renewable heating and cooling
- Renewables in transport
- Renewables in buildings
- Agricultural and land use issues
- Biomass production
- Agronomy
- Biorefineries
- Renewables in industrial symbiosis
- Energy systems
- Road maps
- Hydrogen and fuel cells
- Power system, power electronics, smart grid
- Technologies involving renewable energy: e.g. food drying, irrigation, desalination
- Software tools
- Environmental impact
- Life cycle assessment
- Decarbonisation and synergies with fossil fuels
- Sustainability
- Standards
- Infrastructure
- Materials
- Resources
- Power system, power electronics, smart grid

- Micro scale renewables
- Power grids, requirements, international connections
- Grid stability, power generation flexibility
- Electric vehicles
- Energy storage
- Renewables in developed, developing and underdeveloped countries
- Business models and strategies
- Planning
- Renewable energy policy
- Renewable energy economics
- Renewable energy business development
- Innovations, intellectual property rights
- Financing, project finance and management
- Accounting
- Venture capital, entrepreneurial finance, corporate finance
- Intellectual property, start-ups, licensing
- Merger and acquisitions, capital markets, outsourcing, consumer behaviour
- Incentives, legislation
- Energy markets
- Risks and risk management
- Costs and revenues
- Legislative and ethical considerations for research, business and policy interactions
- Societal issues, consumer access, social benefits
- Organisations
- Other topics of critical importance for the development of renewable energy science, technology, policy and business

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Patrons

Global Society for Research and Business in Sustainable Development and Renewable Energy Sources (GSRBSDRES), Warsaw, Poland



Renewable Energy and Sustainable Development (RES D) Group, Wrocław, Poland



Website

<http://resrb.budzianowski.eu>

Conference structure

The conference structure consists of keynote lectures, oral lectures, and short communications. In addition, an ISC/SAB meeting, thematic panel discussion and awards for best presenters are envisaged.

Types of abstracts

Participants are requested to deliver abstracts in one of three formats: (1) a research abstract, (2) a business proposal abstract - type A regular, (3) a business proposal abstract - type B special or (4) a company profile abstract. The research abstract is designed for research behind RESRB themes. It can relate to theory, experiments, analysis, etc. The business proposal abstract is designed for proposals with commercialisation potential. The business proposal abstract - type B special needs to meet additional special requirements for acceptance as follows: (i) maximum capital injection for deployment up to 10 000 euro, (ii) potential for organic growth, (iii) existence of project developers team and (iv) a proposal is not protected by patents or if protected they are owned by the project developers team. The business proposal abstract - type B special needs to be a potentially attractive for future commercialisation. The company profile abstract needs to be designed as a quasi-scientific presentation emphasising real-life problems and highlight company's products and services to address these problems.

Publications

(1) Abstract on Book of Abstracts

All abstracts of conference participants will be published on the peer-reviewed **Book of Abstracts**. The maximum length of the abstract is 1 page. The Book of Abstracts will be published on-line in open-access with an ISBN number.

Peer-review procedure: (i) a minimum of two independent experts review all submissions, (ii) final abstracts must be approved by two experts and editors.

Editor of Book of Abstracts: Budzianowski W.

(2) 4-page paper on Proceedings

Selected 4-page papers will be published on the peer-reviewed **Proceedings**. The Proceedings will be published on-line in open-access with an ISBN number and will be indexed by Scopus and Web of Science.

Peer-review procedure: (i) a minimum of two independent experts review all submissions, (ii) final full paper must be approved by two experts and editors.

Editor of Proceedings: Budzianowski W.

(3) Full article on journal

Full articles will be facilitated for publication on **journals**. Selected full papers will be invited for free-of-charge journal publication on Special Issues and Regular Issues.

Special Issues affiliated with the RESRB conference has been accepted by journal Energies (MDPI):

- Research and Business in Renewable Energy Sources 2020



(https://www.mdpi.com/journal/energies/special_issues/RB_RES)

- Production and Utilization of Biogas



(https://www.mdpi.com/journal/energies/special_issues/Production_and_Utilization_of_Biogas)

journal Energy, Ecology and Environment (Springer):

- Renewable Energy, Ecology, Environment & Business



(<https://static.springer.com/sgw/documents/1651732/application/pdf/SI-EEE+2020+RESRB+%28Budzianowski%29.pdf>)

(<https://www.springer.com/energy/journal/40974>)

and journal Aerospace (MDPPI):

- Aero-Engines: A Quest for Lower Fuel Burn and Reduced Emissions



(https://www.mdpi.com/journal/aerospace/special_issues/aero-engines)

Regular Issues are also available for publication in the following journals:

- all unpaid journals (the conference supports your submission via Internal Review),
- International Journal of Renewable Energy Development (UNDIP),
- International Journal of Photoenergy (Hindawi),
- Journal of Energy Systems (EK),

- Journal of Renewable Energy Sources - Technology, Business and Policy (WBCS).

Selected RESRB conference full papers will be published in these Special and Regular Issues free of charge. Publications costs will be handled by the conference.

Full papers from previous RESRB conferences were published in leading journals such as Renewable Energy, Renewable and Sustainable Energy Reviews, Energies, Biofuels, Energy Conversion and Management and many others.

Internal Review

If required conference internal reviewers will advise authors on how to improve the manuscripts and suggest journals suitable for publication.

The internal review process will be targeted at the following journals:

- Biofuels (Taylor & Francis),
- Biomass and Bioenergy (Elsevier),
- Energies (MDPI),
- Energy, Ecology and Environment (Springer),
- Energy and Environmental Science (RSC),
- Energy Economics (Elsevier),
- Energy Policy (Elsevier),
- Energy Sources Part B Economics Planning and Policy (Taylor & Francis),
- International Journal of Green Energy (Taylor & Francis),
- International Journal of Photoenergy (Hindawi),
- International Journal of Renewable Energy Development (UNDIP),
- International Journal of Renewable Energy Research (IJRER),
- Journal of Energy Systems (EK),
- Journal of Power Technologies (WUT),
- Journal of Renewable Energy Sources - Technology, Business and Policy (WBCS),
- Progress in Photovoltaics Research and Applications (Wiley),
- Renewable Energy (Elsevier),
- Renewable Energy Focus (Elsevier),
- Renewable and Sustainable Energy Reviews (Elsevier),
- Solar Energy (Elsevier),

but authors may suggest their own most suitable journals.

Internal review is optional for conference participants.

(4) Chapter on edited book

Full articles associated with contributions presented at the RESRB conference will be facilitated for publication on **edited books**. Conference Internal Reviewers will advise authors on how to improve the manuscripts. Book Editors will invite selected manuscripts. Authors will select an edited book for publication. Peer review procedure for edited books: two independent reviewers must approve manuscripts. The conference will support the creation of edited books relevant to conference themes.

Edited Book - Selected Papers from Renewable Energy Sources - Research and Business conference

(5) Book

In case a full material associated with the contribution presented at the RESRB conference can be extended to a book size (40-300 standard pages) it may be facilitated for publication as a **book** (a monograph). Conference Internal Reviewers and the professional book editorial team at Wojciech Budzianowski Consulting Services will assist authors in meeting standards and market requirements for book publication. Authors interested to publish their extended material in a book format need to first contact wojciech1@budzianowski.eu to discuss publication process details, costs and potential benefits for the parties. In general books can be published in a standard model or in open access model by large book publishers or by Wojciech Budzianowski Consulting Services with ISBN. Book authors usually will be offered a contract and depending on the scope of the work required for book

publication and publication model it may include a remuneration for book authors. Review procedure for books: independent reviewers are involved in the entire publication process.

Full paper processing

Full paper processing includes (a) free-of-charge publication, (b) Internal Review, and (c) manuscript editorial services.

(a) Free-of-charge publication - You may apply for free-of-charge publication in Special Issues and Regular Issues of journals or in edited books.

(b) Internal Review - Our 3 expert Internal Reviewers will provide detailed subject specific comments on manuscript quality, recommend a journal and check compliance with overall and specific publication standards. Internal Reviewers follow Internal Reviewer guidelines and use Internal review form, see the Reviewers menu for details.

(c) Manuscript editorial services - You may express your interest in manuscript editorial services, see the Full paper menu and contact us for details.

Go to the Full paper menu to select suitable options.

Acknowledgments

When submitting your full conference paper to journals/edited books please acknowledge the conference presentation as follows:

The work has been presented at the 5th Renewable Energy Sources - Research and Business (RESRB) conference held on 6-7 July 2020 in Brussels (Belgium).

Oral lecture requirements

Please prepare a presentation for your oral lecture in power point or similar software with additional conversion to pdf. Your oral lecture will take 15 minutes + 5 minutes discussion.

Short communication/virtual short communication requirements

Please prepare your short communication/virtual short communication in a power point or pdf format. You will show your short communication to the audience during the conference short communication session (5 minutes + 3 minutes discussion). The virtual short communication of virtual participants will be presented by a Committee member or by using your video.

Short communication/virtual short communication format:

1 page short communication title page with authors,

0-2 pages CV of the corresponding author with a photograph including his/her research in renewable energy (virtual short communications only), this should clarify your expertise in the researched field,

2-5 pages main research results in the form of figures, photographs, schemes etc. (each item is clearly described by one sentence), if text is essential use very short bullet points,

1 page conclusion in short bullet points.

Please make sure that your virtual short communication is sufficiently comprehensive that it can be presented to the audience by someone who did not participate in your research and that the audience will understand the main points. Use comprehensive figures and short bullet points. Focus on your novel findings. Avoid too much text. Research goals, conclusions and originality must be particularly clear. In conclusions emphasise one key message you wish to communicate to the conference academic and/or business audiences that was formulated based on your research.

Virtual short communication in video format:

Alternatively virtual short communication may be prepared in a video format (5 minutes). The video may simply include your slides and your comments, preferably with a visible face. The preferred format is mp4 HD. The video will be displayed to the audience during the short communication session.

Send your virtual short communication at least 1 month prior the conference to:

wojciech1@budzianowski.eu

Business participation

Business participants may exhibit, advertise or sponsor at the conference and additionally:

- launch novel products and highlight existing ones,
- enhance company sales and educate the market,
- spotlight key executives,
- increase brand awareness and position the organisation in the renewable energy community,
- elevate visibility of the company in focused markets,
- benefit from interaction with a highly qualified scientific community,
- network with experts and form new alliances with national and international clients,
- have access to new knowledge and attract new innovations to the company,
- build business relationships for the future.

For participants seeking academia-business interactions the organisational structure of RESRB will provide relevant opportunities. Start-ups and other knowledge and innovation driven enterprises are particularly welcome at RESRB.

On-site exhibition, media advertisement, sponsorship and donation

An on-site exhibition will run alongside the conference sessions. You may physically exhibit your company/institution's products/services by participating in-person or send us materials for on-site exhibition arranged by organisers.

Media advertisement includes adverts on Book of Abstracts, Proceedings and 3 year via conference website. We are prepared to offer dedicated media solutions to address your specific needs.

To book on-site exhibition and media advertisement register online at <http://resrb.budzianowski.eu> (menu Registration).

Various forms of sponsorship are also available, in particular for companies and institutions. Sponsorship will be adequately highlighted in all conference related materials and all activities. Sponsors are also encouraged to contribute with delegates which will have the participation fee waived. Through sponsorship you may help us to strengthen the conference and efficiently reach our unique audience with your professional message.

To discuss further details please contact the Executive Organiser at email:

wojciech1@budzianowski.eu; or tel.: +48 792781784.

If you appreciate what we do for the society please give us a small donation to further improve the quality of our services.

Pay your donation to the bank account:

Bank - Alior Bank SA Łopuszańska 38 D 02-232 Warszawa

BIC (SWIFT) - ALBPPL PW

No. (IBAN) PL18249010570000990275291419 (in EUR)

No. (IBAN) PL71249010570000990175291419 (in USD)

No. (IBAN) PL89249000050000410098926265 (in PLN)

Please add the statement: Donation

For other currencies and donating via credit cards consider using third party services such as Transferwise

Roles of conference participants

Researcher - gives a lecture on his/her research and publishes a research abstract and a full paper

Internal Reviewer - takes part in the internal review of abstracts and full papers

Exhibitor - exhibits and advertise at the conference

Sponsor - sponsors the conferences

Visitor - participates in the conference with no role specified above

Important dates

Abstract for Book of Abstracts due (extended)	March 10, 2020
Abstract acceptance decision	up to 7 day

Fee payment (extended)	April 1, 2020
Early bird fee payment	February 28, 2020
Digital conference Book of Abstracts (draft) available	July 6, 2020
Conference	July 6-7, 2020
4-page manuscript for Proceedings due	June 30, 2020
Full manuscript for Internal Review due	October 31, 2020
Internal review outcomes sent to authors	January 31, 2021

Conference fees

Participation in-person (all days)	€250
Participation in-person (1 day)	€200
Participation in-person (early bird payment by February 28, 2020) (all days)	€200
Participation in-person (PhD/MSc student) (all days)	€200
Visitor or accompanying person (all days)	€150
Exhibitor (on-site exhibition and media advertisement included) (all days)	€250
Virtual participation (with research abstract)	€100
Virtual participation (with business proposal abstract - type A regular at RESRB)	€100
Virtual participation (with business proposal abstract - type B special, submitted and already accepted at RESRB)	€0
Virtual participation (with company profile abstract)	€100
Additional abstract and 4-page paper (1 item)	€20
Internal Review of full manuscript for journals (1 item)	€50
On-site exhibition arranged by organisers	€50
Media advertisement: adverts on Book of Abstracts, Proceedings and 3 years via conference website	€50

For payments in USD and PLN use the following exchange rates 1 EUR = 1.11 USD = 4.34 PLN.

Payment instructions

Please pay the conference fee to the bank account:

Account holder - Wojciech Budzianowski Consulting Services Poleska 11/37 51-354 Wrocław

Bank - Alior Bank SA Łopuszańska 38 D 02-232 Warszawa

BIC (SWIFT) - ALBPPL PW

No. (IBAN) PL18249010570000990275291419 (payment in EUR)

No. (IBAN) PL71249010570000990175291419 (USD)

No. (IBAN) PL59249000050000400072662067 (PLN)

Payment costs - use option OUR - all transfer costs paid by the payee.

Please add the statement: Lastname Firstname.

For other currencies and payment via credit cards consider using third party services such as Transferwise

For payment in cash inform us at wojciech1@budzianowski.eu

Cancellation policy

If you find it necessary to cancel your participation, exhibition or sponsorship, please email the conference organiser immediately via email: wojciech1@budzianowski.eu. In addition, please send written notice in paper by normal post to the conference organiser address. Cancellation more than 91 days prior to the first open day of the conference - 50% of the total charge as a cancellation fee provided that written notice in paper is received by the organising committee. Cancellation 91 days or less prior to the first open day of the conference - 100% of the total charge as a cancellation fee.

In-person vs. virtual participation

In-person participation is when an attendee is physically present at the conference. For in-person participants the conference fee includes the following services: (i) peer review of abstracts/full paper for Book of Abstracts/Proceedings, (ii) abstract/full paper publication on the digital conference Book of Abstracts/Proceedings, (iii) presentation at the conference (the first submission is oral, additional submissions are usually short communications), (iv) social programme, (v) coffee, drinks, meals etc. Virtual participation is when an attendee is unable or unwilling to take part in-person in the conference and his/her short communication is presented to the audience during dedicated sessions. For virtual participants a conference fee includes the following services: (i) peer review of abstracts/full paper for Book of Abstracts/Proceedings, (ii) abstract/full paper publication on the digital conference Book of Abstracts/Proceedings, (iii) presentation of slides at the conference by conference presenter. Virtual authors are encouraged to submit video presentations. Skype presentation and question & answers is also feasible.

Special fee reduction programme

This conference facilitates participation of researchers from developing countries and/or temporarily without access to institutional funding under a special fee reduction programme. Find details of this programme by visiting the Reviewers menu in the conference website.

Registration

Register online at <http://resrb.budzianowski.eu> In case any registration detail change, please re-register.

Certificates

Participants obtain the following certificates, letters, etc.: an acceptance letter, visa letter, certificate of presentation, certificate of award, certificate of SAB membership, invoice. These documents may be requested from wojciech1@budzianowski.eu

Participant's steps in brief

- 1) Submit your **abstract** to wojciech1@budzianowski.eu (use abstract template from the website)
- 2) **Register** online at <http://resrb.budzianowski.eu> (menu Registration)
- 3) Participants requiring **an acceptance letter, visa letter, certificate of presentation, invoice** or any other confirmation need to request them from wojciech1@budzianowski.eu
- 4) Pay your **fee** indicated during the registration
- 5) As an in-person participant you will present your **slides** at the conference according to the Programme
- 6) If you are a virtual participant please submit your **slides** or **video** to wojciech1@budzianowski.eu (at least one month prior to the conference)
- 7) If interested, submit your **4-page manuscript** for Proceedings to wojciech1@budzianowski.eu and register it online at <http://resrb.budzianowski.eu> (menu Full paper)
- 8) If interested, submit your **full manuscript** (for Internal Review and journals) to wojciech1@budzianowski.eu and register it online at <http://resrb.budzianowski.eu> (menu Full paper)
- 9) Upon receiving Internal Reviewers' comments **revise** your full manuscript accordingly
- 10) Submit your **revised full manuscript** for publication to suitable journals, edited books or as a book

Ethical considerations

This conference is a platform aimed at raising academic quality of science and linking the different types of participants (e.g. research, business and policy) with consideration of ethical standards to the highest possible extent. The conference seeks only original contributions. Internal review processes for abstracts and full manuscripts aim at fair evaluation of professional quality. The criteria of quality include among others: originality, conciseness, profundity, societal impact, relevance to the conference subject. Conference contributions are judged only on merits without regard to authors'

race, gender, seniority, nationality, affiliation or political views. The internal review process is single blind and confidential. All ethical issues regarding any conference contribution such as plagiarism, conflict of interests, errors or violation of intellectual property rights should be immediately reported and such contributions will be excluded from the conference. Please report all important ethical issues directly to wojciech1@budzianowski.eu.

Venue

Université Libre de Bruxelles (ULB), Solbosch Campus, Building K
Avenue F.D. Roosevelt 42, B-1050 Brussels, Belgium
<https://sciences.brussels/lieux/ulb-campus-du-solbosch-batiment-k/>

Logistics

The Brussels airport (Zaventem) is well connected with all major European and international airports. From the airport you may reach the venue by train (B-rail to Etterbeek station), city buses (De Lijn, MIVB/STIB +tram, metro), car, bike and taxi.

Accommodation

Accommodation is booked by participants. Hotels can be booked via hotel's website or services such as HRS (<http://pl.hrs.com>), Hotels.com (<http://www.hotels.com>) or Booking.com (<http://www.booking.com>).

Programme

Monday 6 July 2020	
08.30-09.00	Registration (Hall)
09.00-09.05	Opening session (Room A)
09.05-10.00	Keynote lecture session 1 (Room A) Recent progress in European renewable energy adoption <i>Rainer Hinrichs-Rahlwes*</i> *speaking author at European Renewable Energies Federation, Brussels, Belgium Building Integrated Photo-Voltaics (BIPV) applications in cities and related business models <i>P. Hendrick*, Q. Crabbé</i> *speaking author at Université Libre de Bruxelles, Brussels, Belgium Available <i>Author*</i> *speaking author at
10.00-13.00	Coffee break (Hall)
10.30-12.00	Oral lecture session 1 - Solar resources (Room A) Available <i>Author*</i>
10.30-12.00	Oral lecture session 2 - Wind resources (Room B) Available <i>Author*</i>
12.00-12.30	Oral lecture session 3 - Renewable hydrogen for mobility and household applications (Room A) Auto-collective self-consumption, influence of collective battery energy storage <i>P. Hendrick*, S. Koroglu, E. Penalvo</i> Available <i>Author*</i>
12.00-12.30	Oral lecture session 4 - Business development II (Room B) Available <i>Author*</i>

12.30-13.15	Lunch break (Restaurant)
13.15-15.30	Oral lecture session 5 - Biomass resources (Room A) Available <i>Author*</i>
13.15-15.30	Oral lecture session 6 - Hydro resources (Room B) Available <i>Author*</i>
15.30-15.45	Coffee break (Hall)
15.45-16.45	Short communication session 1 (Room A) Available <i>Author*</i>
16.45-17.00	ISC and SAB Meeting (Room A)
Tuesday 7 July 2020	
08.30-09.00	Registration (Hall)
09.00-10.00	Keynote lecture session 2 (Room A) Long term value analysis of grid-scale energy storage technologies <i>Kourosh Malek*</i> <small>*speaking author at National Research Council, Vancouver, Canada</small> Building integrated energy storage: smart windows <i>Sorin Melinte*</i> <small>*speaking author at Université Catholique de Louvain, Louvain-la-Neuve, Belgium</small> Available <i>Author*</i> <small>*speaking author at</small>
10.00-10.30	Coffee break (Hall)
10.00-12.30	Oral lecture session 7 - Business development III (Room A) Available <i>Author*</i>
10.00-12.30	Oral lecture session 8 - Biomass resources (Room A) Available <i>Author*</i>
12.30-13.15	Lunch break (Restaurant)
13.15-14.45	Oral lecture session 9 - Geothermal resources (Room B) Available <i>Author*</i>
13.15-14.45	Oral lecture session 10 - Business proposals (Room B) Available <i>Author*</i> <small>*speaking author at</small> Towards commercialisation of renewable energy innovations in Europe <i>Wojciech Budzianowski*</i> <small>*speaking author at Wojciech Budzianowski Consulting Services, Wrocław, Poland</small> Available <i>Author*</i> <small>*speaking author at</small>
14.45-15.00	Coffee break (Hall)
15.00-16.00	Short communication session 2 (Room A) Available <i>Author*</i>
16.00-16.45	Panel discussion (Room A)
16.45-17.00	Closing session (Room A) - Award ceremony (1) Best conference lecture

	(2) Best conference lecture by student (3) Best conference virtual presentation (4) Best conference virtual presentation by student
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* - speaking author

Conference language

English

Collaboration

Please contact the conference founding chair at wojciech1@budzianowski.eu if you are:

- an experienced conference organiser interested to co-organise/co-chair the 6th RESRB 2021 or 7th RESRB 2022 conference in your country;
- a publisher or journal's editor-in-chief interested to publish selected RESRB post-conference full papers in your journal.

Contact details

The organising committee may be contacted by email: wojciech1@budzianowski.eu or by phone +48 792781784.