SAARANSH SPAB Library Insight

Welcome

SAARANSH is a SPAB Library bi-monthly digital digest to communicate new developments in the knowledge and showcasing the potential of existing content for knowledge creation and validation.

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Education

Education is the process of acquiring knowledge, skills, values, habits, developing reasoning power, judgment and preparing oneself for life. This learning process can be formal and informal, in the process of formal education system educator guides the learner whereas informal education system experience affects thinking and feelings, hence such acts also considered as education.

Education 4.0

Industrial revolution 4.0 is transforming the world by technology like the Internet of Things (IoT), Big Data and Artificial Intelligence; hence it affects the industry and human resources as well. Thus, the workforce for working in the technological transformation era should upgrade their skills and knowledge to match with newly created job roles.

Education 4.0 will be more focused on remote learning, personalized learning, choice-based educational tools, project-based learning, field-specific experience (experiential learning), data analysis with changed exam patterns and assessment.

Further Readings on Education 4.0 Resources Available Online

Blog / **Articles** / **Research papers** (online) please click on article for further reading

- Education 4.0 is here / Madhuvanti S. Krishnan (June 18, 2017)
- What is Education 4.0? / Graham Celine (May 11, 2018)
- Is Education 4.0 the future of learning? / India Today Web Desk (June 27, 2019)
- Preparing for Education 4.0 / The World University Rankings
- Education 4.0 ... the future of learning will be dramatically different, in school and throughout life / (January 24, 2017)
- Education 4.0 Made Simple: Ideas For Teaching / Anealka Aziz Hussin (July 2018)
- Technological infrastructure and human culture: Appropriating innovative teaching methods to 21st century classroom / Su Li Chong and Roselind Wan (Oct 16, 2018)
- Everything You Need to Know About Education 4.0 / Frances James
- May the Fourth Be with You: Creating Education 4.0 / Gilly

- Salmon
- Education 4.0: How technology is shifting the academic and employment landscape / Paul Johnson

Websites

Future Ready Education
- Education 4.0
- Parenting 4.0

E-Book / Handbooks

- The Future of Education and Skills: Education 2030 / OECD (2018)
- Teaching in a Digital Age: Guidelines for Designing Teaching and Learning / Anthony W. Bates

Journals

Higher Learning Research Communications (SCOPUS Indexed Since 2018 -)

HLRC is an open access journal with an international focus. Its aim is to disseminate both high quality research and teaching best practices in tertiary education across cultures and disciplines. HLRC connects the ways research and best practices contribute to the public good and impact the communities that educators serve. Peer reviewed and published articles have encompassed the following topics (submissions are not limited to this list):

- Research and best practices in digital teaching and learning
- Results from international collaborations regarding teaching and learning
- How tertiary education contributes to training in 21st-century, global workplace skills
- Assessment of student learning
- Continuous quality improvement of academic programs and support services
- The role of tertiary education in promoting civic engagement and globally competent citizenship
- Tertiary education in developing countries
- The role of institutional, local, national, and international policy on tertiary education

(Ref. Journal Site)

Tuning Journal for Higher Education (SCOPUS Indexed Since 2018 -)

The Journal is an Open Access publication that facilitates the individual and collaborative efforts of hundreds of international researchers who are working to develop innovative and sustainable higher education around the world. The Journal concentrates on the development of degree programmes and the challenges of their recognition, relevance and quality; as well as on teaching, learning and assessment strategies based on a student-centred approach.
The Journal welcomes contributions on the following topics:

1. Competence-based learning in higher education
2. Academic teachers' professional development and teaching

competences

3. Cooperation and partnership building
4. Emergence and development of higher education areas

<div align="right">(Ref. Journal Site)</div>

List of Databases Subscribed by SPAB Library

Full-text
- ProQuest Dissertations and Thesis Global

Statistical Databases
- Indiastat.com
- Districts of India

Abstracting Databases
- Avery Index to Architectural Periodicals

List of Journals Subscribed Online Only by SPAB Library

1. Anthropocene review
2. Architectural design
3. Cultural geographies
4. Development and change
5. Dialogues in human geography
6. Economic development quarterly
7. Education and urban society
8. Environment and planning A: Economy and Space
9. Environment and planning B: Planning and design
10. Environment and planning C: Politics and space
11. Environment and planning D: Society and space
12. Environment and planning E: Nature and space
13. Environment and urbanization
14. Environment and urbanization Asia
15. Environmental law review

Higher Education Pedagogies (SCOPUS Indexed Since 2016 -)

The aim of *Higher Education Pedagogies* is to identify, promote and publish excellence and innovations in the practice and theory of teaching and learning in and across all disciplines in higher education.

The journal will provide an international forum for the sharing, dissemination and discussion of research, experience and perspectives across a wide range of teaching and learning issues. The journal will prove a valuable resource for individuals in the development and enhancement of their own practice, and for institutions in the promotion of the scholarship of teaching and learning.

Higher Education Pedagogies will focus on disciplinary pedagogies and learning experiences; the higher education curriculum, i.e. what is taught and how it is developed and enhanced including both skills and knowledge; the delivery of the higher education curriculum; how it is taught and how students learn, and academic development; the role of teaching and learning in the development of academic careers and its place within the profession. *Higher Education Pedagogies* welcomes papers which are accessible to both specialist and generalist readers and are theoretically and empirically rigorous. Through advancing knowledge of, and practice in, teaching and learning, *Higher Education Pedagogies* will prove essential reading for all those who wish to stay informed of state-of-the-art teaching and learning developments in higher education.

<div align="right">(Ref. Journal Site)</div>

International Journal of Educational Technology in Higher Education (SCOPUS Indexed Since 2016 -)

The journal welcomes research on innovative approaches in applying technology to enhance learning, design and educational outcomes, including quantitative, qualitative and hybrid approaches. Articles on applied theory in educational practice are also welcomed, as well as articles on the practical applications of research, on current policy initiatives and evaluations of research, theoretical, pedagogical and methodological issues related to educational technology. In addition, the journal accepts critical reviews on theoretical or pedagogical perspectives, new technologies and the use of IT in higher education. Authors are encouraged to submit papers related, but not limited, to the following topics of interest:

- Innovations and best practices in online learning, training, research and management
- Educational technology, models and trends in higher education
- Computer-supported collaborative learning, training and research
- Intelligent tutoring and mentoring systems

- Learning analytics and educational data mining
- Open access systems for learning and training
- Organisational and administrative perspectives of IT use in higher education
- University governance and leadership in the knowledge society
- Institutional policies, standards and assessment methods
- Models of higher education presence and service using the Internet
- Internationalization and cultural aspects of online learning, training and research

(Ref. Journal Site)

Resources available in SPAB Library

Books

- Inclusive education across cultures: crossing boundaries, sharing ideas / edited by Mithu Alur
- कला शिक्षा शिक्षण = art education teaching / Mata Prasad Sharma
- Universities in the knowledge economy: higher education organisation and global change / edited by Paul Temple
- Higher education in India: in search of equality, quality and quantity / Jandhyala B Tilak
- Sustainable self: a personal approach to sustainability education / Paul Murray
- Philosophy, science, education and culture / Robert Nola
- Qualitative research in education / Liz Atkins
- Spatial design education: new directions for pedagogy in architecture and beyond / Ashraf M Salma
- Intercultural education in the European context: theories, experiences, challenges / Marco Catarci
- Designing better architecture education: global realities and local reforms / Manjari Chakraborty
- Urban and regional planning education: learning for India / edited by Ashok Kumar, Diwakar S. Meshram and Krishne Gowda
- Handbook on engineering education / Association of Indian Universities (AIU)

Journals

Education and Urban Society (SCOPUS Indexed since 1968 -)
Education and Urban Society has recently shifted from a themed-issues format to a traditional, peer-reviewed publication to help you stay up to date on the role of education in society today. The preeminent journal for communicating new ideas on educational processes, controversies, research, and policy, *Education and Urban Society* places special emphasis on the relationship between educators and society.
Topics addressed have included:

- Religion and the Politics of Education
- Privatization in Public Education
- America's Changing Demographics: Educational Policy Implications

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List of Journals Subscribed Print + Free Online by SPAB Library

1. AMBIO
2. Annals of library and information studies
3. Architectural theory review
4. Current science
5. Demography
6. Design and culture
7. Design issues
8. Down to earth
9. Economic and political weekly
10. Environment, development and sustainability
11. Geospatial world magazine (formerly GIS Development Magazine)
12. Housing, theory and society
13. Human Factors
14. Indian Journal of Human Development
15. Indian journal of public administration
16. International journal of architectural heritage: Conservation, Analysis and Restoration
17. International journal of heritage studies
18. International Journal of Logistics Management
19. International journal of urban sustainable development
20. JoLA: Journal of landscape architecture (Foreign)
21. Journal of architectural conservation
22. Journal of environmental studies and sciences
23. Journal of housing and the built environment
24. Journal of social and economic development

- Educating Homeless Students in Urban Settings
- Alternative Teacher Certification
- School Choice Plans
- Resilience, Schooling, and Development in African-American Youth

Education and Urban Society is an important outlet for the wide variety of disciplines studying today's educational systems and provides a multidisciplinary forum for communication among educators, educational administrators, school board members, sociologists, urban anthropologists, and political scientists.

(Ref. Journal Site)

Journal of Planning Education and Research (SCOPUS Indexed Since 1981 -)

SAGE is proud to publish the *Journal of Planning Education and Research (JPER)* on behalf of the Association of Collegiate Schools of Planning. *JPER*, a double blind peer-reviewed journal, is a forum for planning educators and scholars (from both academia and practice) to present results from teaching and research that advance the profession and improve planning practice. The journal covers planning theory, planning practice, and planning pedagogy. It also encompasses disciplines drawn upon by planners such as urban geography, welfare economics, interest-group politics, policy analysis, as well as other subjects used in the planning classroom. Some of the key topics seen in recent articles include:

- Citizen Participation/Dispute Resolution
- Methods, Information Systems, Mapping
- Demographic and Spatial Analysis, Applied GIS
- Land Use, Zoning, Growth Management, Planning Law
- Housing and Real Estate
- Community Development, Neighborhood Planning
- Transportation, Infrastructure and Capital Facilities
- Environment, Energy and Natural Resources
- Health, Education and Social Services
- Economic Development
- Design, Historic Preservation, Urban Form
- Public Administration, Finance, Budgeting
- Politics and Society
- Global Context of Urban and Regional Planning
- International Planning & Development
- Planning and Urban History
- Ethics and Professional Concerns

The journal features articles reporting original and current research, new developments in planning pedagogy and instruction, commentary, book reviews, and news and reports from the Association of Collegiate Schools of Planning.

(Ref. Journal Site)

Urban Education (SCOPUS Indexed Since 1965 -)

Urban Education (*UEX*) publishes papers addressing urban issues related to those from birth through graduate school, from both a U.S. and an international perspective. For nearly 50 years, this ground-breaking publication has provided thought-provoking commentary on key issues from gender-balanced and racially diverse perspectives. The journal is organized around eight main interdisciplinary areas:

- Curriculum and Instruction
- Counselling and Social Services
- Education Policy
- Equity in Urban Education
- Leadership
- Psychology and Human Development
- Special Education
- Teacher Education

(Ref. Journal Site)

Librarian Pick for you

Encyclopedia of Sustainability Science and Technology (18 vol. set) Pub. 2012

The *Encyclopedia of Sustainability Science and Technology* (ESST) address the grand challenge for science and engineering today. It provides unprecedented, peer-reviewed coverage in more than 550 separate entries comprising 38 topical sections. ESST establishes a foundation for the many sustainability and policy evaluations being performed in institutions worldwide.

An indispensable resource for scientists and engineers in developing new technologies and for applying existing technologies to sustainability, the *Encyclopedia of Sustainability Science and Technology* is presented at the university and professional level needed for scientists, engineers, and their students to support real progress in sustainability science and technology.

Although the emphasis is on science and technology rather than policy, the *Encyclopedia of Sustainability Science and Technology* is also a comprehensive and authoritative resource for policy makers who want to understand the scope of research and development and how these bottom-up innovations map on to the sustainability challenge.

"Let the everlasting air and light make confortable the house that is built up with skill and knowledge and measured and erected by the learned architects."

Atharva-Veda

Tools

The R Project for Statistical Computing

R is a language and environment for statistical computing and graphics. It is a GNU project which is similar to the S language and environment which was developed at Bell Laboratories (formerly AT&T, now Lucent Technologies) by John Chambers and colleagues. R can be considered as a different implementation of S. There are some important differences, but much code written for S runs unaltered under R.

R provides a wide variety of statistical (linear and nonlinear modelling, classical statistical tests, time-series analysis, classification, clustering, ...) and graphical techniques, and is highly extensible. The S language is often the vehicle of choice for research in statistical methodology, and R provides an Open Source route to participation in that activity.

One of R's strengths is the ease with which well-designed publication-quality plots can be produced, including mathematical symbols and formulae where needed. Great care has been taken over the defaults for the minor design choices in graphics, but the user retains full control.

R is available as Free Software under the terms of the Free Software Foundation's GNU General Public License in source code form. It compiles and runs on a wide variety of UNIX platforms and similar systems (including FreeBSD and Linux), Windows and MacOS.

(Ref. Web Site)

SPSS

The SPSS® software platform offers advanced statistical analysis, a vast library of machine learning algorithms, text analysis, open source extensibility, integration with big data and seamless deployment into applications.

Its ease of use, flexibility and scalability make SPSS accessible to users of all skill levels. What's more, its suitable for projects of all sizes and levels of complexity, and can help you and your organization find new opportunities, improve efficiency and minimize risk.

Within the SPSS software family of products, SPSS Statistics supports a top-down, hypothesis testing approach to your data while SPSS Modeller exposes patterns and models hidden in data through a bottom-up, hypothesis generation approach.

(Ref. Web Site)