

Affective Learning Together Social And Emotional Dimensions Of Collaborative Learning New Perspectives On Learning And Instruction

This book constitutes the refereed proceedings of the Second International Conference on Innovative Technologies and Learning, ICITL 2020, held in Porto, Portugal, in November 2020. The 65 full papers presented together with 2 short papers were carefully reviewed and selected from 127 submissions. The papers are organized in the following topical sections: Augmented and Virtual Reality in Education; Educational Data Mining and Learning Analytics; Emerging Issues and Trends in Education; Innovative Learning in Education; Online Course and Web-Based Environment; Technology-Enhanced Learning; Application and Design of Innovative Learning Software; and Science, Technology, Engineering, Arts and Design, and Mathematics. Due to the Corona pandemic this event was held virtually.

Written by experts in comparative, developmental, social, cognitive and cultural psychology, this book introduces the novel concept of affective social learning to help explain why what matters to us, matters to us. In the same way that social learning describes how we observe other people's behaviour to learn how to use a particular object, affective social learning describes how we

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observe other people's emotions to learn how to value a particular object, person or event. As such, affective social learning conceptualises the transmission of value from a given culture to a given person and reveals why the things that are so important to us can be of no consequence at all to others.

The interdisciplinary field of the learning sciences encompasses educational psychology, cognitive science, computer science, and anthropology, among other disciplines. The Cambridge Handbook of the Learning Sciences is the definitive introduction to this innovative approach to teaching, learning, and educational technology. This dramatically revised second edition incorporates the latest research in the field, includes twenty new chapters on emerging areas of interest, and features contributors who reflect the increasingly international nature of the learning sciences. The authors address the best ways to design educational software, prepare effective teachers, organize classrooms, and use the internet to enhance student learning. They illustrate the importance of creating productive learning environments both inside and outside school, including after-school clubs, libraries, museums, and online learning environments. Accessible and engaging, the Handbook has proven to be an essential resource for graduate students, researchers, teachers, administrators, consultants, educational technology designers, and policy makers on a global scale.

This book presents peer-reviewed contributions on smart universities by various international research, design and development teams. Smart university is an emerging and

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rapidly evolving area that creatively integrates innovative concepts; smart software and hardware systems; smart classrooms with state-of-the-art technologies and technical platforms; smart pedagogy based on modern teaching and learning strategies; smart learning and academic analytics; as well as various branches of computer science and computer engineering. The contributions are grouped into several parts: Part 1—Smart Universities: Literature Review and Creative Analysis, Part 2—Smart Universities: Concepts, Systems and Technologies, Part 3—Smart Education: Approaches and Best Practices, and Part 4—Smart Universities: Smart Long Life Learning. The book is a valuable source of research data and findings, design and development outcomes, and best practices for faculty, scholars, Ph.D students, administrators, practitioners and anyone interested in the rapidly growing areas of smart university and smart education.

If you're looking for a powerful tool to enhance your students' research efforts, then this is the resource for you! Using a respected model of group investigation as a guide, this book provides proved, ready-to-use ways to help your children stay focused, meet deadlines and complete their required assignments.

In the twenty-first century, being able to collaborate effectively is important at all ages, in everyday life, education and work, within and across diverse cultural settings. People are increasingly linked by networks that are not only means for working and learning together, but are also ways of maintaining social and emotional support. Collaborating with others requires not only

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elaborating new ideas together, but also being able to manage interpersonal relations. In order to design and facilitate effective collaborative situations, the challenge is therefore to understand the interrelations between social, affective and cognitive dimensions of interactions in groups. *Affective Learning Together* contains in-depth theoretical reviews and case studies of group learning in a variety of educational situations and taught disciplines, from small groups working in the secondary school classroom, to teams of medical students and more informal working groups at university level. Contributors provide detailed analyses of the dynamics of interpersonal relations and affects, in relation with processes of meaning and knowledge elaboration, including discussion of: the variety of social learning situations and experiences; social identities in group learning; emotion, motivation and knowledge elaboration; conflict, arguments and interpersonal tensions in group learning. Bringing together a broad range of contributions from internationally recognised researchers who are seeking to broaden, deepen and integrate the field of research on collaborative learning, this book is essential reading for all serious students of contemporary educational research and practice.

Threshold Concepts in Practice brings together fifty researchers from sixteen countries and a wide variety of disciplines to analyse their teaching practice, and the learning experiences of their students, through the lens of the Threshold Concepts Framework. In any discipline, there are certain concepts – the ‘jewels in the curriculum’ – whose acquisition is akin to passing

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through a portal. Learners enter new conceptual (and often affective) territory. Previously inaccessible ways of thinking or practising come into view, without which they cannot progress, and which offer a transformed internal view of subject landscape, or even world view. These conceptual gateways are integrative, exposing the previously hidden interrelatedness of ideas, and are irreversible. However they frequently present troublesome knowledge and are often points at which students become stuck. Difficulty in understanding may leave the learner in a 'liminal' state of transition, a 'betwixt and between' space of knowing and not knowing, where understanding can approximate to a form of mimicry. Learners navigating such spaces report a sense of uncertainty, ambiguity, paradox, anxiety, even chaos. The liminal space may equally be one of awe and wonderment. Thresholds research identifies these spaces as key transformational points, crucial to the learner's development but where they can oscillate and remain for considerable periods. These spaces require not only conceptual but ontological and discursive shifts. This volume, the fourth in a tetralogy on Threshold Concepts, discusses student experiences, and the curriculum interventions of their teachers, in a range of disciplines and professional practices including medicine, law, engineering, architecture and military education. Cover image: Detail from 'Eve offering the apple to Adam in the Garden of Eden and the serpent' c.1520–25. Lucas Cranach the Elder (1472–1553). Bridgeman Images. All rights reserved.

This book provides a practical, evidence-based

guide to teaching introductory Women's and Gender Studies courses. Based on the findings of a Scholarship of Teaching and Learning project that analyzed 72 Intro students' written work, the authors equip instructors with key principles that can help them adapt their pedagogy to a range of classroom environments. By putting student learning at the center of course design, the authors invite readers to reflect on their own investments in and goals for the introductory course. The book also draws on the authors' combined decades of teaching experience, and aims to help instructors anticipate the emotional, intellectual, and interpersonal challenges and rewards of teaching and learning in the introductory WGS course. Chapters focus on course design, including identifying desired learning outcomes (in terms of course content, skills, and dispositions or habits of mind); choosing course materials; pedagogical activities; and assessing student learning. This book will be an invaluable resource for experienced WGS instructors and those seeking or planning to teach it for the first time, including graduate students and high school teachers. This state-of-the art research Handbook provides a comprehensive, coherent, current synthesis of the empirical and theoretical research concerning teaching and learning in science and lays down a foundation upon which future research can be built. The contributors, all leading experts in their research

areas, represent the international and gender diversity that exists in the science education research community. As a whole, the Handbook of Research on Science Education demonstrates that science education is alive and well and illustrates its vitality. It is an essential resource for the entire science education community, including veteran and emerging researchers, university faculty, graduate students, practitioners in the schools, and science education professionals outside of universities. The National Association for Research in Science Teaching (NARST) endorses the Handbook of Research on Science Education as an important and valuable synthesis of the current knowledge in the field of science education by leading individuals in the field. For more information on NARST, please visit: <http://www.narst.org/>.

This book gives an overview of the state-of-the-art in Technology Enhanced Learning (TEL). It is organized as a collection of 14 research themes, each introduced by leading experts and including references to the most relevant literature on the theme of each cluster. Additionally, each chapter discusses four seminal papers on the theme with expert commentaries and updates. This volume is of high value to people entering the field of learning with technology, to doctoral students and researchers exploring the breadth of TEL, and to experienced researchers wanting to keep up with

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And Emotional Dimensions Of Collaborative
Learning New Perspectives On Learning And
Instruction

latest developments.

"This book focuses on the study and application of human computer interaction principles in the design of online education"--Provided by publisher.

This book is about the past and future of research on the effectiveness of learning networks (also known as "e-learning" or "online learning" or "Web-based learning"). Learning networks are groups of people using computer technology, communicating and collaborating online to build knowledge together. Over the past decade there has been an explosion not only of online courses, but also of studies on them. In *Learning Together Online: Research on Asynchronous Learning Networks*, leading researchers in the field use an integrated theoretical framework, which they call "Online Interaction Learning Theory," to organize what past research shows and where future research is going. It models the variables and processes that are important in determining the relative effectiveness of online learners working to reach a deeper level of understanding by interacting with each other and with the texts under investigation. Now that there have been hundreds of studies and thousands of courses offered online, what does the empirical evidence show? This book addresses the question directly by presenting what is known from research results about how to design and teach courses effectively online, ranging from the organizational

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context and characteristics of students to learning theories and research design methods. It also provides a research agenda for the next decade.

Learning Together Online: Research on Asynchronous Learning Networks is both a textbook for graduate students and a professional reference for faculty teaching online, researchers conducting studies, and graduate students taking courses about learning technologies who need to know the state of the art of research in the area of online learning. The third edition of the Handbook of Educational Psychology is sponsored by Division 15 of the American Psychological Association. In this volume, thirty chapters address new developments in theory and research methods while honoring the legacy of the field's past. A diverse group of recognized scholars within and outside the U.S. provide integrative reviews and critical syntheses of developments in the substantive areas of psychological inquiry in education, functional processes for learning, learner readiness and development, building knowledge and subject matter expertise, and the learning and task environment. New chapters in this edition cover topics such as learning sciences research, latent variable models, data analytics, neuropsychology, relations between emotion, motivation, and volition (EMOVO), scientific literacy, sociocultural perspectives on learning, dialogic instruction, and networked learning.

Expanded treatment has been given to relevant individual differences, underlying processes, and new research on subject matter acquisition. The Handbook of Educational Psychology, Third Edition, provides an indispensable reference volume for scholars in education and the learning sciences, broadly conceived, as well as for teacher educators, practicing teachers, policy makers and the academic libraries serving these audiences. It is also appropriate for graduate level courses in educational psychology, human learning and motivation, the learning sciences, and psychological research methods in education and psychology.

The Routledge Handbook of Literacy Studies offers a comprehensive view of the field of language and literacy studies. With forty-three chapters reflecting new research from leading scholars in the field, the handbook pushes at the boundaries of existing fields and combines with related fields and disciplines to develop a lens on contemporary scholarship and emergent fields of inquiry. The Handbook is divided into eight sections: The foundations of literacy studies Space-focused approaches Time-focused approaches Multimodal approaches Digital approaches Hermeneutic approaches Making meaning from the everyday Co-constructing literacies with communities This is the first handbook of literacy studies to recognise new trends and evolving trajectories together with a focus on radical

epistemologies of literacy. The Routledge Handbook of Literacy Studies is an essential reference for undergraduate and postgraduate students and those researching and working in the areas of applied linguistics and language and literacy.

This book brings together respected international academics and practitioners from citizenship and drama to debate, share their experiences and plan a way forward for academic and professional best practice in drama and citizenship education for a democratic society. Drawing on international contributions, the chapters explore fundamental ideas about theatre and drama from a global perspective with connections made to action and identity. The main section of the book showcases authors from around the world discussing their perspectives of what is happening within particular countries and exploring a range of ideas and issues that relate to vitally important matters including community, socialism, post-colonialism, diversity, inclusion and more. The final section of the book brings together teams of authors from citizenship and drama education, who discuss the essential elements of citizenship education and encourage insight and practical collaboration from drama experts. The book is unique in presenting dynamic interaction between citizenship and drama experts and encouraging academics and professional to develop their own work in these areas. It will be of great interest to academics, researchers and students in the fields of citizenship education, drama education and all those interested in promoting social justice through education. This book presents the historical, theoretical and empirical foundations of educational practices involving dialogue and argumentation.

M.A.K Halliday's work has been hugely influential in linguistics and beyond since the 1960s. This is a collection of

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interviews with key figures in the generation of social semioticians who have taken Halliday's concept of social semiotics and developed it further in various directions, making their own original contributions to theory and practice. This book highlights their main lines of thought and considers how they relate to both the original concept of social semiotics and to each other. Key themes include: Linguistic studies, multilinguality and evolution of language; Text, discourse and classroom studies; Digital texts, computer communication and science teaching; Multimodal text- and discourse analysis; Education and literacy; Media work and visual and audio modes; Critical Discourse Analysis. Featuring interviews with leading figures from linguistics, education and communication studies, a framing introduction and concluding chapter summing up commonalities and differences, connections and conflicts and key themes, this is essential reading for any scholar or student working in the area of social semiotics and systemic functional linguistics. Additional video resources are available on the Routledge website. Featuring: Christian M.I.M. Matthiessen, Theo Van Leeuwen, James R. Martin, Jay Lemke, Gunther Kress

Affective education can be defined as that part of the educational process which concerns itself with the attitudes, feelings, beliefs and emotions of students. Central to the concept is the acknowledgement that student's feelings about themselves as learners and about their academic subjects can be at least as influential as their actual ability. This collection features the work of contributors from countries such as Belgium, Denmark, Russia, Germany, Israel, Spain and the UK. It shows how the practical approach to affective education varies from nation to nation. By analyzing the underlying theory, this text sets out to bring the different approaches closer together, to enable teachers across the continent to work towards a positive common ground.

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Affective Learning Together Social and Emotional Dimensions of Collaborative Learning Routledge

In this book, the authors integrate STEM (i.e., science, technology, engineering, and mathematics) concepts and the cultivation of young minds in order to be open to innovation. This book uses STEM instruction as blurring the lines among basic subject areas. Often, it's more than integrating science, mathematics, engineering, and technology. Ideas, activities, and projects can be integrated with lessons from the language arts to the Arts as well. In this book, STEM is treated as more of a philosophy than a program or a set of activities.

You are central to effective professional learning! For professional learning to have a meaningful impact, it needs to be sustained, collaborative, evidence-informed, and student focused—generating multifaceted solutions to real-life issues. Gone are the one-size-fits-all answers—instead, you'll use your knowledge and expertise to lead your PLC in actively solving complex problems. This book, based on the results of a five-year research study, provides:

- An innovative approach to the design and delivery of professional learning grounded in principles of adaptive expertise
- Easy-to-use one-page summaries of “Deliberate Acts of Facilitation”
- Guidance that's fully congruent with Learning Forward Standards for Professional Learning

The Routledge International Handbook of Research on Dialogic Education provides a comprehensive overview of the main ideas and themes that make up the exciting and diverse field of Dialogic Education. With contributions from the world's leading researchers, it describes underpinning theoretical approaches, debates, methodologies, evidence of impact, how Dialogic Education relates to different areas of the curriculum and

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ways in which work in this field responds to the profound educational challenges of our time. The handbook is divided into seven sections, covering: The theory of Dialogic Education Classroom dialogue Dialogue, teachers and professional development Dialogic Education for literacy and language Dialogic Education and digital technology Dialogic Education in science and mathematics Dialogic Education for transformative purposes Expertly written and researched, the handbook marks the coming of age of Dialogic Education as an important and distinctive area of applied educational research. Featuring chapters from authors working in different educational contexts around the world, the handbook is of international relevance and provides an invaluable resource for researchers and students concerned with the study of educational dialogue and allied areas of socio-cultural research. It will interest students on PhD programmes in Education Faculties, Master's level courses in Education and postgraduate teacher-training courses. The accounts of results achieved by high-impact research projects around the world will also be very valuable for policy makers and practitioners.

This book explores how complex systems theory can contribute to the understanding of classroom language learner motivation through an extended examination of one particular, situated research project. Working from the lived experience of the participants, the study describes how action research methods were used to explore the dynamic conditions operating in a foreign language classroom in Japan. The book draws attention

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to the highly personalised and individual, yet equally co-formed nature of classroom foreign language learning motivation and to the importance of agency and emotions in language learning. It presents an extended illustration of the applicability of complex systems theory for research design and process in SLA and its narrative approach shines light upon the evolving nature of research and role of the researcher. The study will be a valuable resource for practitioners, researchers and postgraduate students interested in classroom language teaching and learning, especially those with a focus on motivation among learners.

Intelligent Support for Computer Science Education presents the authors' research journey into the effectiveness of human tutoring, with the goal of developing educational technology that can be used to improve introductory Computer Science education at the undergraduate level. Nowadays, Computer Science education is central to the concerns of society, as attested by the penetration of information technology in all aspects of our lives; consequently, in the last few years interest in Computer Science at all levels of schooling, especially at the college level, has been flourishing. However, introductory concepts in Computer Science such as data structures and recursion are difficult for novices to grasp. Key Features: Includes a comprehensive and succinct overview of the Computer Science education landscape at all levels of education. Provides in-depth analysis of one-on-one human tutoring dialogues in introductory Computer Science at college level. Describes a scalable, plug-in based Intelligent

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Tutoring System architecture, portable to different topics and pedagogical strategies. Presents systematic, controlled evaluation of different versions of the system in ecologically valid settings (18 actual classes and their laboratory sessions). Provides a time-series analysis of student behavior when interacting with the system. This book will be of special interest to the Computer Science education community, specifically instructors of introductory courses at the college level, and Advanced Placement (AP) courses at the high school level. Additionally, all the authors' work is relevant to the Educational Technology community, especially to those working in Intelligent Tutoring Systems, their interfaces, and Educational Data Mining, in particular as applied to human-human pedagogical interactions and to user interaction with educational software.

A neuroscience revolution is making its way into classrooms around the country, changing the way we understand how emotions influence thinking and learning. This book makes available the most pertinent scientific information in a way classroom teachers can understand and apply.

Policy Entrepreneurship in Education aims to build the confidence and skills of education academics in securing higher impact for their work. It offers guidance and identifies methods of capturing and measuring impact, as well as practical advice in helping academics engage policy makers and influence society with their research. Written specifically for the field of education, the book utilises domestic and international examples to illustrate those policy entrepreneurship activities which advance

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impact and appeal to international audiences, who are increasingly concerned with how higher education studies in education can make a difference on the ground. Combining theory and practice, the book employs a practical approach to doing policy entrepreneurship. It is a unique offering that will appeal to all who have an academic or practical interest in policy change and how to affect this.

This book brings together a range of international studies to support the implementation of cooperative group work in the classroom. In spite of extensive research into the benefits of this approach, in many countries, it is not widely used, largely due to a lack of understanding of how to put this into practice in the classroom. Starting from an exploration of the theoretical perspectives that underpin this pedagogy, the challenges for including pupils with special educational needs and related status issues of pupils are explored. Amongst the themes explored are how creative approaches, such as Storyline, support engagement particularly for second language learning; how working with young children using cooperative group work can develop writing skills; and how teachers can work together in an effective, collaborative, and sustained manner in a professional learning community. The final chapter provides a vivid example of one teacher's personal journal to develop her understanding of the power of cooperation in creating bridges to meaningful learning for all learners. This book was originally published as a special issue of Education 3-13.

Socializing Intelligence Through Academic Talk and

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Dialogue focuses on a fast-growing topic in education research. Over the course of 34 chapters, the contributors discuss theories and case studies that shed light on the effects of dialogic participation in and outside the classroom. This rich, interdisciplinary endeavor will appeal to scholars and researchers in education and many related disciplines, including learning and cognitive sciences, educational psychology, instructional science, and linguistics, as well as to teachers curriculum designers, and educational policy makers.

This volume focuses on motivation in education under changing and unsettling times and provides ideas on how global changes affect student and teacher motivation to learn and achieve.

On Collaboration: Personal, Educational and Societal Arenas contains a scientific exploration of the concept 'collaboration' as it is given meaning in real life, including our personal lives, with historical and societal background, and in authentic fiction.

This book constitutes the refereed proceedings of the 16th International Conference on Artificial Intelligence in Education, AIED 2013, held in Memphis, TN, USA in July 2013. The 55 revised full papers presented together with 73 poster presentations were carefully reviewed and selected from a total of 168 submissions. The papers are arranged in sessions on student modeling and personalization, open-learner modeling, affective computing and engagement, educational data mining, learning together (collaborative learning and social computing), natural language processing, pedagogical agents, metacognition and self-regulated learning, feedback and scaffolding, designed learning activities, educational games and narrative, and outreach and scaling up.

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Highlighting the work of 17 distinguished national authors, this special issue suggests a new course for the field of gifted education -- one that emphasizes the individual and suggests that the focus of gifted education be dynamic and contextual. From legal perspectives to changing concepts of giftedness, talent, and assessment; from using new technologies to identify differences in brain structures to using new research paradigms to reveal the nature of giftedness; from compelling reasons for early intervention to tailoring opportunities for college-ready gifted persons, this two-part issue of PJE exposes new dimensions along which paths between previously held beliefs and practices and new courses for thought and action can be forged. A parental perspective is also included.

Mobile Technologies and Handheld Devices for Ubiquitous Learning: Research and Pedagogy provides readers with a rich collection of research-informed ideas for integrating mobile technologies into learning and teaching. Each chapter looks critically at the issues, related benefits and limitations of learning ubiquitously within the context of the research reported. New and emerging technologies present challenges for education causing educators to have to rethink pedagogy, boundaries and curriculum if they continue to embrace mobile technologies in their teaching.

The Handbook of Epistemic Cognition brings together leading work from across disciplines, to provide a comprehensive overview of an increasingly important topic: how people acquire, understand, justify, change, and use knowledge in formal and informal contexts. Research into inquiry, understanding, and discovery within academic disciplines has progressed from general models of conceptual change to a focus upon the learning trajectories that lead to expert-like conceptualizations, skills, and performance. Outside of academic domains, issues of who and what to believe, and

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how to integrate multiple sources of information into coherent and useful knowledge, have arisen as primary challenges of the 21st century. In six sections, scholars write within and across fields to focus and advance the role of epistemic cognition in education. With special attention to how researchers across disciplines can communicate and collaborate more effectively, this book will be an invaluable resource for anyone interested in the future of knowledge and knowing. Dr. Jeffrey A. Greene is an associate professor of Learning Sciences and Psychological Studies in the School of Education at the University of North Carolina at Chapel Hill. Dr. William A. Sandoval is a professor in the division of Urban Schooling at the UCLA Graduate School of Education & Information Studies. Dr. Ivar Bråten is a professor of Educational Psychology at the Faculty of Educational Sciences at the University of Oslo, Norway.

Technology has dramatically changed the way in which knowledge is shared within and outside of traditional classroom settings. The application of fuzzy logic to new forms of technology-centered education has presented new opportunities for analyzing and modeling learner behavior. Fuzzy Logic-Based Modeling in Collaborative and Blended Learning explores the application of the fuzzy set theory to educational settings in order to analyze the learning process, gauge student feedback, and enable quality learning outcomes. Focusing on educational data analysis and modeling in collaborative and blended learning environments, this publication is an essential reference source for educators, researchers, educational administrators and designers, and IT specialists. This premier reference monograph presents key research on educational data analysis and modeling through the integration of research on advanced modeling techniques, educational technologies, fuzzy concept maps, hybrid modeling, neuro-fuzzy learning management systems,

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