



Proceedings of the 2nd International Conference of the Journal Scuola Democratica

REINVENTING EDUCATION

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VOLUME III

Pandemic and Post-Pandemic Space and Time

ASSOCIAZIONE "PER SCUOLA DEMOCRATICA"

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**Pandemic and Post-
Pandemic Space and Time**

ASSOCIAZIONE "PER SCUOLA DEMOCRATICA"
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***Title* Proceedings of the Second International Conference of the Journal "Scuola Democratica" – Reinventing Education VOLUME III Pandemic and Post-Pandemic Space and Time**

This volume contains papers presented in the 2nd International Conference of the Journal "Scuola Democratica" which took place online on 2-5 June 2021. The Conference was devoted to the needs and prospects of Reinventing Education.

The challenges posed by the contemporary world have long required a rethinking of educational concepts, policies and practices. The question about education 'for what' as well as 'how' and 'for whom' has become unavoidable and yet it largely

remained elusive due to a tenacious attachment to the ideas and routines of the past which are now far off the radical transformations required of educational systems.

Scenarios, reflections and practices fostering the possibility of change towards the reinvention of the educational field as a driver of more general and global changes have been centerstage topics at the Conference. Multidisciplinary approach from experts from different disciplinary communities, including sociology, pedagogy, psychology, economics, architecture, political science has brought together researchers, decision makers and educators from all around the world to investigate constraints and opportunities for reinventing education.

The Conference has been an opportunity to present and discuss empirical and theoretical works from a variety of disciplines and fields covering education and thus promoting a trans- and inter-disciplinary discussion on urgent topics; to foster debates among experts and professionals; to diffuse research findings all over international scientific networks and practitioners' mainstreams; to launch further strategies and networking alliances on local, national and international scale; to provide a new space for debate and evidences to educational policies. In this framework, more than 800 participants, including academics, educators, university students, had the opportunity to engage in a productive and fruitful dialogue based on research, analyses and critics, most of which have been published in this volume in their full version.

Pandemic and Post-Pandemic Space and Time

A Premise

Papers in this third volume deals with the Covid-19 pandemic which is having an enormous impact on education systems worldwide. Policy makers, teachers, school managers, parents and students have been called to the reinvent their way of 'doing school'. At the same time, the governance of the education system and schools' organizations have been exposed to unprecedented tensions.

Within a short period of time, radical changes had to be introduced, simultaneously, at various levels of the school system. At national and regional level, there has been the need to rethink the way in which teachers are recruited, engaged and managed. National assessment and evaluation systems have been suspended or redefined in their uses by school actors. The ways through which institutes were managed and organized had to be rethought, passing in a very short time through an on and off of dematerialization and hyper-normativity of time and space. Within schools, managers and teachers have been called to redefine the role of digital technologies in their didactic, as well as in their relationships with families and students. In some cases, these set of changes led to experience novel and unexpected daily proximities, in other prevailed a context characterized by distance and unsatisfactory relationships. Managers and teachers have been asked to re-invent their professionalism to rethink their organizational, didactic and relational competences. Students and families, on their side, have been called to rebuild and reimagine new way of being at school, re-inventing the spaces and time of schooling and the way in which they relate among each other and with teachers.

The pandemic emergency has been a lens revealing intersections and structural tensions among various level and actors of the education system, but also allowing opportunities of changes thanks to the exogenous shock. At the same time, it must be considered that the emergency is interacting on pre-existing inequalities and contradictions. The pandemic clearly revealed the deep disparities of educational opportunities associated to students' life and housing conditions, beyond their access and uses of technological devices. Remote teaching and the enactment of an 'emergency didactic' has exacerbated learning difficulties for underprivileged students (children facing material deprivation, students with migratory background, students with special needs or disable, etc.). The interaction between the pandemic and pre-existing inequalities created different contextual conditions for actors' agency, orienting toward different directions the pandemic's transformational potential.

Higher education systems have been affected too: in constant evolution due to constant transformations of society and changed functions of knowledge, universities have undergone a structural

change along with pandemic times. Simultaneously, the growing relevance of knowledge for the economic development of the capitalistic system has profoundly affected higher education systems, characterized by the neo-liberal approach which is subject of increasing critical analysis.

However, Higher education systems are starting to be affected by other somewhat inevitable changing processes due to the evolution of knowledge and the consequent forms of its transmission. These forms have to be necessarily new both because of the availability of new instruments and the increased need to develop interpretative models of a constant and often unpredictable change. In this juncture the university might assume a renewed central role. At Higher Education System level, the growing use of digital instruments is envisaged in order to cope with the rising of the management rates of the training offer as well as to answer to the growing differentiation of user categories. A feasible consequence could be the increasing of the already pressure for the differentiation among the universities, with the related social implications.

At individual university level, it is foreseeable the demand for university involvement in tackling the problems of society and the economy will increase. And this at global, national and local level. From an organizational point of view the most significant feature is represented by the accumulation of traditional and new tasks that do not seem to be possible to manage. Whatever form the higher education systems will come to take, it remains that a central point to be clarified concerns the management of change. It will be the market that will impose its rules and the universities will organize themselves individually within the invisible enclosures that will guide their policies (with predictable growing social and territorial differences), or instead the State will choose incentive policies to direct its training system. It remains that in a condition of uncertainty and constant change the university's roles multiply and become – at least potentially – more and more central. It can therefore be argued that the university is not only called upon to respond to the demands of society but by elaborating answers and solutions to the problems it progressively affects the functioning of society.

We are fully aware that each educational experience produces specific results and definitions of teaching-learning practices. The well-established model of the magister teacher, based on a one-to-many transmission of knowledge, is complemented by new configurations of teaching-learning practices. There are teaching practices that cultivate the ambition to combine the technological innovation with the psychological and pedagogical issues. Educational technologies, such as the Interactive Whiteboard, incorporate a new grammar and pragmatic in which the emphasis is placed on the

involvement and the participation of the student, as well as on a “reverse teaching”, compared to the traditional one. The diffusion of online educational platforms, based on algorithmic architectures and data-driven approaches, also draws attention to a personalized way of learning and a datafication of teaching. Digital technologies are therefore stimulating a series of transformations in the socio-material order of the class affecting the spatial and temporal configuration of teaching. At the same time, they are embedded in the complexity of the educational contexts that rework their practical and symbolic value.

In the European framework of strengthening the relations between the labour market and education, we also witness the implementation of teaching practices associated with the idea of knowledge as an economic and social investment. Recently, a large field of critical investigation has highlighted how teaching aimed at improving the employment prospects of students is deeply affecting public values in education. At the same time, different points of view in the educational field claim to postpone the transmission of skills related to the labour market to broader educational objectives of social inclusion and civic participation.

The new proxemics imposed by the current pandemic challenge traditional spatial configuration, from the arrangement of desks to the mobile use of chairs, from the forms of communication in virtual environments to the interaction in the classroom. Therefore, this is to register the need to re-elaborate the ecology of the educational practices, starting from the socio-material space of learning.

Reinventing Experiential Learning Activities in Primary School 2

REINVENTING EXPERIENTIAL LEARNING. <i>LA GAZZETTA OLIMPICA</i> , THE NEWSPAPER OF THE SCHOOL AND THE NEIGHBOURHOOD	
<i>Elvira Celardi</i>	3
A VILLAGE IN A METROPOLIS: SOCIOLOGICAL ISSUES AROUND A CHILDREN'S EDITORIAL INITIATIVE IN A SUBURBAN AREA	
<i>Alessandro Cisilin</i>	13
WHO GETS THE RIGHT TO GO TO SCHOOL? THE ITALIAN CRITICAL WORKERS' AFFAIR	
<i>Chiara Gius</i>	23
SCHOOL, FAMILY AND DISTANCE LEARNING AT THE TIME OF COVID-19: THE CASE OF THE <i>GAZZETTA OLIMPICA</i>	
<i>Veronica Lo Presti and Maddalena Gattinara</i>	33
THE ROLE OF JOURNALISM IN AN EXPERIENTIAL LEARNING SESSION IN PRIMARY SCHOOL	
<i>Christian Ruggiero and Mauro Bomba</i>	43

"You Can Get It, If You Really Want!": Using (Formative) Assessment to Improve Student Learning Experiential Learning Activities in Primary School 58

COVID-19 AND THE SCHOOL ASSESSMENT REFORM? THE MISSED EFFECTS ON FORMATIVE ASSESSMENT PRACTICE	
<i>Serafina Pastore</i>	59

Reinventing Decision-Making in Schools: Self-Evaluation & Data Literacy 70

PARENTS AS DECISION-MAKERS. FINANCIAL-ORGANIZATIONAL INVOLVEMENT OF FAMILIES IN THE SCHOOL OF AUTONOMY	
<i>Anna Granata and Valerio Ferrero</i>	71
THE USE OF DATA TO SUPPORT STRATEGIC PLANNING AND SCHOOL IMPROVEMENT AND INNOVATION	
<i>Serena Greco and Elettra Morini</i>	79
ASSESSMENT LITERACY, DATA USE, AND TEACHER DECISION-MAKING: A FEASIBLE BALANCE?	
<i>Serafina Pastore</i>	91
USEFUL SELF-ASSESSMENT. THE ROLE OF SELF-ASSESSMENT PROCESSES IN SCHOOL IMPROVEMENT	
<i>Daniela Robasto</i>	101

How Schools Address the Covid Emergency: Voices from Principals, Teachers, and Students 110

THE ECEC PROFESSIONALS WITHIN THE COVID-19 EMERGENCY: FROM REMOTE CONTACTS TO LEARNING COMMUNITIES	
<i>Rita Bertozzi and Tatiana Saruis</i>	111
DISTANCE LEARNING AT EMILIA-ROMAGNA'S SCHOOLS. A FIRST IN-DEPTH QUANTITATIVE AND QUALITATIVE ANALYSIS FROM THE TEACHERS' PERSPECTIVE	
<i>Andrea Ciani, Chiara Dalledonne Vandini, Aurora Ricci and Lucia Scipione</i>	122
THE TEACHING EXPERIENCE DURING THE COVID-19 EMERGENCY: THE RESULTS OF A FIELD RESEARCH	
<i>Maria Chiara De Angelis</i>	135
PANDEMIC AND SCHOOL MANAGEMENT: CHALLENGES FOR FUTURE EDUCATION	
<i>Francesca Dello Preite</i>	149
EDUCATING DURING COVID-19: AN OVERVIEW OF PERCEPTIONS, EXPERIENCES, FEELINGS AND STRATEGIES IN FACING DISTANCE LEARNING OF THE ACTORS INVOLVED	
<i>Diego Izzo, Giulia Mattiacci and Damiano Periccioli</i>	161
EXTRACURRICULAR SCHOOL ACTIVITIES DURING THE FIRST COVID-19 LOCKDOWN IN ITALY: COMPARATIVE STUDY WITH PRIOR TO LOCKDOWN WORKSHOPS	
<i>Giuseppe C. Pillera</i>	171
A PICTURE, A LIGHTHOUSE, A KITE: METAPHORS OF EMERGENCY TEACHING	
<i>Elettra Troina, Andrea Mangiatordi and Luisa Zecca</i>	187

Training Educational Professionals During the Pandemic: Impact, Learning, Strategies and New Didactic Challenges Faced by the University Traineeship 196

ONLINE TRAINEESHIP: WHICH EDUCATIONAL CHANCES? CHANGES FROM LIVE TO ONLINE MODEL IN TFO

EXPERIENCE

Marco Alviti, Luca Bassi and Maria Elena Scotti 197

WHICH TRAJECTORIES TO TRAIN 'SECOND LEVEL' EDUCATIONAL PROFESSIONALS? REFLECTIONS ABOUT A UNIVERSITY TRAINEESHIP FACING COVID-19 PANDEMIC

Maria Benedetta Gambacorti-Passerini and Paola Eginardo 205

RAISING AWARENESS OF STUDENTS' PROFESSIONAL IDENTITY. AN ONLINE INTERNSHIP PATH FOR FUTURE EDUCATORS AT THE UNIVERSITY OF CATANIA

Roberta Piazza and Valeria Di Martino 215

THE INTERNSHIP OF THE BACHELOR'S DEGREE COURSE IN EDUCATION OF THE UNIVERSITY OF MILANO-BICOCCA IN TIME OF PANDEMIC

Elisabetta Marazzi, Benedetta Pozzoli, Marialisa Rizzo and Silvia Tognetti 227

INSPIRING AND PREPARING A COMPREHENSIVE VIEW OF THE PROFESSIONAL ROLE OF EDUCATOR: A SIMULATED TRAINEESHIP EXPERIENCE

Claudia Secci and Andrea Spano 237

Challenges and Weaknesses. Differentiation, Digital Transformation, Professionalism, Autonomy 246

THE REMOTE LEARNING TRANSITION AT THE UNIVERSITY OF BOLOGNA: STUDENT EXPERIENCES AND EXPECTATIONS FOR A POST-PANDEMIC FUTURE

Alessandro Bozzetti and Nicola De Luigi 247

UNIVERSITY 2030: THINKING ABOUT A STRUCTURAL CHANGE

Giovanni Ragone 261

THE HARD PATH OF ACADEMIC STABILISATION INTO A NEOLIBERAL EUROPEAN ACADEMIC FRAMEWORK

Marialuisa Villani, Sanja Djerassimovic and Orazio Giancola 271

University Third Mission and the Local Environment 284

PUBLIC ENGAGEMENT AND GENDER DIFFERENCES IN ITALY: EXPLORING THE GAP BY ACTIVITY AND DISCIPLINE

Monia Anzivino 285

TERRITORIAL DEVELOPMENT AND 'THIRD MISSION'

Donatella Capaldi and Alessio Ceccherelli 298

Rethinking Higher Education at the time of COVID-19: Challenges, new perspectives, critical issues 308

A COMPETENCY MODEL FOR OBESITY PREVENTION AND HEALTHY LIFESTYLES EDUCATION THROUGH THE INTERDISCIPLINARY AND SUSTAINABLE PARADIGM OF TELEMEDICINE

Stefania Massaro and Loredana Perla 309

HYBRIDITY AND EDUCATIONAL VIRTUALITY. WHAT DID 2020 LEAVE US?

Sergio Ricardo Quiroga 319

THE TRANSITION TO ONLINE TEACHING IN TIMES OF PANDEMIC: AN EXPERIENCE OF TEACHERS' TRAINING IN EUROPEAN HIGHER EDUCATION

Marc Romero, Teresa Romeu, Montse Guitert and Pablo Baztán 329

ADDRESSING COMPLEX REAL-WORLD CHALLENGES IN SOFTWARE ENGINEERING EDUCATION THROUGH THE INTEGRATION OF GAMIFICATION AND CROWDSOURCING

Mercedes Ruiz, Manuel Trinidad and Alejandro Calderón 343

University and Active Citizenship. Didactic Practices and Methodological Trajectories for the Development of Creative and Critical Thinking 358

BRING IT ON! DEBATE INTO UNIVERSITY. A METHODOLOGICAL PROPOSAL TO FOSTER CREATIVE AND CRITICAL THINKING	
<i>Ivan Daldoss</i>	359
DESIGN PROFESSIONAL PREFIGURATIONS IN SCHOOL AND UNIVERSITY THROUGH CREATIVITY	
<i>Mario Giampaolo, Nicolina Bosco and Alessandra Romano</i>	371
ACTIVE CITIZENSHIP IN A TRANSFORMATIVE PERSPECTIVE	
<i>Claudio Melacarne</i>	381
HOW SERVICE LEARNING CAN BE A WAY TO PROMOTE CIVIC RESPONSIBILITY	
<i>Luigina Mortari, Roberta Silva and Alessia Bevilacqua</i>	391
PROMOTING CREATIVITY AND NARRATIVE IDENTITY'S EXPRESSION THROUGH DIGITAL STORYTELLING. AN EXPLORATORY STUDY	
<i>Laura Occhini, Nicolina Bosco and Alessandra Romano</i>	405
THE TRAINING OF UNIVERSITY PROFESSORS AS AN AXIS FOR ACHIEVING PARTICIPATORY CITIZENSHIP WORK ON RELEVANT SOCIAL PROBLEMS AS A STARTING POINT	
<i>Noelia Pérez-Rodríguez, Nicolás de-Alba-Fernández and Elisa Navarro-Medina</i>	417

Reinventing University. Public Engagement as Participative and Collective University 426

ETHNOGRAPHY OF A RELATIONSHIP BETWEEN SOCIAL WORKERS AND HOMELESS PEOPLE: THE EDUCATIONAL FUNCTION OF THE RESEARCH AND THE MEDIATION ROLE OF THE RESEARCHER	
<i>Maddalena Floriana Grassi</i>	427
TRANSFORMATION OF UNIVERSITY, BETWEEN RESIDUES AND DERIVATIONS	
<i>Andrea Lombardinilo</i>	437
UNIVERSE OF KNOWLEDGE. WHEN PROFESSIONAL AND ACADEMIC KNOWLEDGE MEETS	
<i>Mariacarmela Albano, Daniela Fazio, Antonino Sidoti and Tiziana Tarsia</i>	451
WHEN UNIVERSITY MEETS THE NEEDS OF THE TERRITORY: THE CASE OF THE EDGE PROJECT PRESENTATION	
<i>Fiorella Vinci</i>	463

Tertiary Education in Italy: The Prism of Differences 476

FOREIGN STUDENTS IN ITALIAN UNIVERSITIES: A STATISTICAL ANALYSIS OF THE LAST DECADE	
<i>Fabio Aiello, Massimo Attanasio and Andrea Priulla</i>	477

Faculty Development, Scholarship and Professionalism in Teaching: Challenges and Perspectives for Higher Education 494

DESIGNING TECHNOLOGY TO SUPPORT ONLINE FACULTY DEVELOPMENT THROUGH TEACHING OBSERVATION, PEER FEEDBACK, AND COLLABORATIVE REFLECTION: A BRIEF LITERATURE REVIEW	
<i>Fulvio Biddau, Alessio Surian and Anna Serbati</i>	495
FACULTY FEEDBACK ON ACTIVE LEARNING DURING THE ELENE4LIFE PILOT PROJECTS	
<i>Maria Cinque</i>	508
FACULTY DEVELOPMENT FOR RESEARCH CAPACITY BUILDING IN HIGHER EDUCATION	
<i>Antonella Lotti and Dario Torre</i>	520
QUALITI PROJECT: DIDACTIC QUALITY ASSESSMENT FOR INNOVATION OF TEACHING AND LEARNING IMPROVEMENT	
<i>Antonella Nuzzaci, Iole Marcozzi, Liliana Ercole and Lucilla Spetia</i>	532
FACULTY DEVELOPMENT DESIGN: A CURRICULAR TRAINING MODEL FOR ACADEMIC PROFESSIONAL DEVELOPMENT	
<i>Loredana Perla, Viviana Vinci and Alessia Scarinci</i>	544

The New Challenges of the Post-Pandemic University Formative Processes, Third Mission and Active Citizenship **558**

- HELICES OVERLAPPING IN THE ITALIAN MEGA-UNIVERSITIES. THE INFLUENCE OF INNOVATIVE DIDACTICS IN PROMOTING THE THIRD MISSION
Barbara Mazza and Elena Valentini 559
- RETHINKING INTERNSHIP EXPERIENCES FOLLOWING THE COVID-19
Cristina Sofia 571

Understanding Society Using Digital Spaces and Resources: Teaching and Learning Paths in Higher Education **582**

- TRAINING FOR TRAINING: MOODLE AS A TEACHING TOOL BY AND FOR TEACHERS
Jessica Camargo Molano, Daniele Battista and Michelle Grillo 583
- LEARNING SOCIAL RESEARCH TECHNIQUES THROUGH DIGITAL RESOURCES AND COLLABORATIVE APPROACHES: THE POINT OF VIEW OF SOCIOLOGY STUDENTS
Maria Carmela Catone, Màrius Domínguez Amorós and Leon Freude 591
- THE IMPACT OF COVID-19 ON ENGLISH LANGUAGE TEACHING IN HIGHER EDUCATION CHINESE SYSTEM. EMERGENCY REMOTE TEACHING IN NEOLIBERAL UNIVERSITIES IN CHINA
Giovannipaolo Ferrari and Eugénie Duthoit 601
- HELP TEACHING AND DIGITAL RESOURCES: A COMPARISON OF CLASSROOM AND DISTANCE-LEARNING EXPERIENCES IN A COURSE OF METHODOLOGY OF SOCIAL RESEARCH
Luciana Taddei 609
- DISTANCE LEARNING: GIVING VALUE TO THE COVID-19 EMERGENCY
*Alessandra Decataldo, Brunella Fiore and Sara Zizzari** 619

Reinventing Education in and through Artistic Languages **630**

- ART AS A DIDACTIC TOOL: 'THE BAUHAUS 2.0' DIGITAL WORKSHOP
Alfonso Amendola and Jessica Camargo Molano 631
- IMPROVISATION IN TEACHING PROFESSION: AN EMBODIED APPROACH FOR INQUIRY
Laura Corbella 641
- PRELIMINARY DATA FROM A DANCING PRACTICE IN DISTANCED LEARNING
Francesco V. Ferraro, Luigi Aruta, Ferdinando Ivano Ambra and Maria Luisa Iavarone 649
- COMMEMORATING PIAZZA FONTANA THROUGH THE ARTS: LEARNING PRACTICES, ARTISTIC PRODUCTIONS AND PUBLIC MEMORY
Lia Luchetti 659
- THE AESTHETIC THINKING. RECONNECTING THE SUBJECT WITH THE REALITY, THE SOCIETY AND THE COSMOS
Stefano Polenta 669
- THE PROCESS OF CROSSBREEDING IN CONTEMPORARY ARTISTIC PRODUCTION. NEW ROUTES IN AESTHETIC EDUCATION
Raffaele Tumino 681
- A UNIVERSITIES PROGRAMME OF ART-BASED AND ART INFORMED RESEARCH
Franca Zuccoli and Elisabetta Biffi 689

Scaling Up Innovation: from Educational Practices to Systemic Change **698**

- THE ART ECOSYSTEM. PROMOTING INNOVATION, INCLUSIVE LEARNING AND ACTIVE CITIZENSHIP
Tiziana Faitini and Erik Gadotti 699

'Boundary' practices: Reinventing education across and beyond the *forme scolaire* **710**

- FOREST PEDAGOGY AND NEOLIBERAL CHALLENGES: EXPLORING THE DISCURSIVE CONSTRUCTION OF FOREST CHILDREN'S SUBJECTIVITY IN ITALY
Stefania Donzelli 711
- HOMESCHOOLING AND UNSCHOOLING

Training a Democratic Teacher: Between Individualized Teaching and Formative Evaluation 734

- BETWEEN WELL-BEING AND POVERTY IN EDUCATIONAL CONTEXTS. WHAT IS THE ROLE OF TEACHERS? A NARRATIVE LITERATURE REVIEW
Sara Baroni and Nicoletta Di Genova 735
- TEACHING PRACTICES AND USE OF DIGITAL IN THE DADA MODEL (DIDACTICS FOR LEARNING ENVIRONMENTS)
Cristiana De Santis, Sara Germani and Daniela Di Donato 747
- THE EPISTEMOLOGICAL QUESTION OF DIGITAL CITIZENSHIP AT THE TIME OF THE PANDEMIC
Alessio Fabiano 761
- THE INFLUENCE OF TRAINING ON TEACHERS' TEACHING STRATEGIES: STUDY OF A SAMPLE OF SECONDARY SCHOOL TEACHERS
Eleonora Mattarelli and Marta Cecalupo 770
- THE SCHOOLYARD AS A TEACHABLE SPACE: A RESEARCH-TRAINING PROJECT WITH TEACHERS AND PARENTS
Andrea Pintus and Laura Landi 781

Reinventing Professional Learning and Development 792

- TOWARD A PHENOMENOLOGY-ORIENTED TRANSFORMATIVE EDUCATION IN ADULT LIFE
Giuseppina D'Addelfio 793
- CITIZENSHIP EDUCATION IN SECONDARY SCHOOL: BETWEEN TEACHERS REPRESENTATIONS AND STUDENT VOICES
Claudia Fredella and Luisa Zecca 805
- TEACHER MERIT RESTYLING THROUGH INCLUSIVE TEACHER LEADERSHIP
Ilaria Salvadori 821

Reinventing School between Pedagogy, Architecture and Design: A Dynamic Laboratory? 830

- MODERN ARCHITECTURE FOR CONTEMPORARY COMMUNITIES: LEARNING AND INCLUSION IN THE OPEN WORK
Lino Cabras 831
- SCHOOL BUILDINGS AS A PRETEXT FOR AN ARCHITECTURAL MANIFESTO
Alessandro De Savi 841
- THE 'FLEXIBLE SPACE' AND THE PEDAGOGICAL ROLE OF ARCHITECTURE
Daniela Monti 851
- MODERN SCHOOL HERITAGE: ARCHITECTURAL AND PEDAGOGICAL MODELS IN SARDINIA (ITALY)
Laura Pujia 863
- EDUCATION RETHINKING SCHOOLS AND REDESIGNING THEM TOGETHER
Franca Zuccoli, Maria Fianchini and Antonella Bellomo 873

Peer Feedback and Peer Assessment as New Perspectives for Teaching and Learning 888

- MUTUAL FEEDBACK EXCHANGE AND PEER ASSESSMENT DURING TEXT REVISION IN PRIMARY SCHOOLS
Elisa Farina 889
- PEER ASSESSMENT AND PEER FEEDBACK TO FOSTER COLLABORATIVE LEARNING AND CONSOLIDATE THE WRITING SKILLS OF UNIVERSITY STUDENTS
Giovanni Moretti, Arianna L. Morini and Bianca Briceag 901

School System and Daily school. Learn about Practices and Make Sense of Evaluation to Promote Innovation 914

- MEASURING THE MATHEMATICS ABILITIES OF STUDENTS WITH SPECIAL EDUCATION NEEDS THROUGH A COMPUTER-BASED MULTILEVEL ADAPTIVE TEST
Emanuela Botta 915
- INNOVATING THE SCHOOL: COMPARING THE POINT OF VIEWS OF STUDENTS, TEACHERS AND HEAD TEACHERS
Sara Mori, Francesca Rossi, Francesca Storai and Valentina Toci 929

ASSESSMENT, POWER, SUBJECTIVATION PROCESSES. BIOPOLITICAL-TRANSDISCIPLINARY HYPOTHESES <i>Andrea Giacomantonio</i>	945
ASSESSMENT AND INCLUSION. THE TEACHERS' EXPERIENCE OF EMERGENCY REMOTE TEACHING DURING THE LOCKDOWN PERIOD <i>Arianna L. Morini and Irene Stanzione</i>	953
DIDACTIC STRATEGIES AND METHODS DURING THE COVID-19 EMERGENCY: A COMPARISON BETWEEN DATA OBTAINED FROM THE QUALITATIVE ANALYSES OF SIRD SURVEY <i>Giulia Toti, Giulia Barbisoni, Eleonora Pera and Irene Dora Maria Scierri</i>	965

Quality ECEC in Italy: Teaching and Learning in the New 0-6 System 978

EDUCATING IN THE COOPERATIVE MODEL THROUGH A STRUCTURAL DIALOGUE BETWEEN FACE-TO-FACE AND DIGITAL ENVIRONMENTS <i>Isabel Alfano, Alessio Ceccherelli, Luca Fratepietro, Marco Serra and Andrea Volterrani</i>	979
LEARNING TO LEARN IN PRESCHOOLS: AN EXPLORATORY QUALITATIVE STUDY IN ITALY AND MEXICO <i>Victor Gerardo Cardenas, Cristina Stringher, Hugo Armando Brito and Ma Irene Silva</i>	991
GAME MEDIA LITERACY AS AN APPROACH TO COMPLEXITY IN EDUCATION <i>Glauco Babini, Massimo Dell'Utri, Roberto Furfaro, Andrea Ligabue, Carlo Andrea Pensavalle and Antonella Ventura</i>	1005

Reinventing the Curriculum and its Practices 1016

ACTIVE LEARNING AND CURRICULUM ACROSS DISCIPLINES: A FIELD RESEARCH STUDY IN SECONDARY SCHOOL <i>Serena Goracci, Rachele Borgi, Loredana Camizzi, Francesca De Santis, Laura Messini and Francesco Perrone</i>	1017
GRAPHIC TOOLS FOR A VISUAL REPRESENTATION OF THE CURRICULUM <i>Luciano Perondi</i>	1035

Pedagogy meets Architecture and Digitalisation 1048

RETHINKING LEARNING SPACES AND TEACHING METHODOLOGIES BY CONNECTING COMMUNITIES DURING THE COVID-19-PERIOD: INCLUSIVE VISION AND RESEARCH-TRAINING IN ON-LINE WORKSHOP <i>Mariagrazia Francesca Marcarini</i>	1049
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Designing Technology to Support Online Faculty Development Through Teaching Observation, Peer Feedback, and Collaborative Reflection: A Brief Literature Review

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ABSTRACT: *This paper presents a brief literature review on technologies and web-based tools for faculty development. It investigates what resources are available to higher education (HE) teachers to support online professional development (OPD) activities based on feedback, collegial discussion, collaborative reflection or teaching observation. From recent studies we note that collective reflection is effective when technologies are acted and used as a medium for collaborative professional learning, appropriately choosing and aligning technology with education purposes and teachers' developmental needs, acknowledging the interrelations among technology, content and pedagogy. The paper provides a better understanding of the limits and potential of different technologies and how programmes of online faculty development can be designed to promote dialogical collaborative thinking.*

KEYWORDS: *Online professional development, Feedback, Video-based feedback, Teaching observation, Intercultural reflection.*

Introduction

Feedback and reflection are frequently considered an essential dimension of learning from experience, and a wealth of literature on teaching, teacher education, and faculty development focuses on them. The origins of reflection and reflective practitioner can be found in the works of Dewey (1910) and Schön (1983), with the latter distinguishing between reflection-on-action undertaken retrospectively, and reflection-in-action, which implies a reflective conversation with the situation. The concept of reflection has been further elaborated by scholars such as Mezirow (1991) and Brookfield (1995) among others. The first, distinguished between content, process, and premise reflection, representing different types and levels of depth in reflective practice. These are understood respectively as using beliefs and knowledge to make interpretations on action, reviewing the effectiveness of chosen strategies, and questioning the

validity of core beliefs, coinciding with instrumental, communicative, and emancipatory forms of learning (Kreber, Cranton, 2000). While reflection may be primarily an individual task, Brookfield pointed out that even if «critical reflection often begins alone, it is, ultimately, a collective endeavor» (1995, 35-36), namely a dialogical inquiry effort informed by four complementary lenses (of our students, peers/colleagues, the literature and our autobiography).

In this regard, some authors (e.g., Pickering, 2006) emphasized the benefits of dialogue for reflection, highlighting the perceived usefulness of collaborative reflection for novice academics and how higher education (HE) teachers can use reflective dialogue and feedback to develop their practice.

However, the literature on feedback in HE has drawn attention to the importance of challenging prevailing notions of feedback. Learning from feedback involves 'complex appraisal' and depends on the development of evaluative expertise (Sadler, 2010). As Shortland (2010) stressed, feedback can be inherently dangerous. Critical feedback may be damaging to the relationships, and sensed as evaluative, judgmental, competitive, and painful, hindering teachers' motivation and opportunities of exchange and support from colleagues. Nevertheless, it can be useless for the teachers' development if the critical/problematic is avoided. To be beneficial and provide learning and development opportunities, feedback needs to be critical but at the same time constructive, non-judgmental and supportive (Hogston, 1995). Good formative feedback should concern positive aspects of teaching and those that can be enhanced, motivating the identification of alternative ways of interpreting and doing things while being simultaneously specific, context-related and realistic, appreciating working constraints and offering options fitting with the context (Fletcher, 2018).

In the HE context, recent research has stressed the value of peer review and observation for community building (Harper, Nicolson, 2013) and to enable the examination of teaching from multiple perspectives (Huxham *et al.*, 2017).

In this regard, OPD technologies and opportunities have the potential to support collaborative, dialogic, and evidence-based approaches of mutual professional learning that would complement individual reflection on practice (Mann, Walsh, 2017).

1. Online faculty development: what technologies for supporting feedback and reflective practice with peers?

Digital technologies constitute a unique opportunity for professional development (PD) activities that are not just faculty-based. They provide teaching staff with the possibility of sharing and building knowledge with peers located at distance (Ravenscroft *et al.*, 2012). In this context, teachers may be conceived as «Self-directed, informal, and collaborative

learners – as OPD can be adapted to the needs and expectations of the teacher, conducing to full autonomy and self-realisation of learning» (Macià, Garcìa, 2016).

Action-researchers that engage in a self-reflective spiral of investigation, reflection and constructive dialogue, looking for an external source of information to innovate classroom experience and produce new insights facilitating their professional development (Prestridge, Tondeur, 2015).

Nevertheless, limits and factors influencing the experience of technology-mediated collaborative reflection should be carefully considered. First, the social/psychological factors that affect collegiality and meaningful participation in online spaces, such as perceived trust and sense of community, or the perception of being in a safe and supportive virtual environment.

Second, the barriers to online participation that concern technology adoption and use (perceived ease of use and usefulness, digital habits). In this regard, technology acceptance is fundamental for boosting social interactions and increasing the satisfaction and sense of community (Tsai, 2012).

Finally, the role of educational experts in guiding the analytical process, sustaining knowledge sharing, nurturing debates, and encouraging and connecting teachers in the virtual environment. Research demonstrates that more complex, dialogical, and critical levels require guidance and support by mentors or instructors (Prestridge, Tondeur, 2015).

2. The literature review: rationale, procedure and materials

This paper has been developed in the context of the Erasmus+ funded project IntRef (Intercultural Reflection on Teaching, 2018-2021)¹, which aims at stimulating reflective dialogue and collaborative problem-solving between academics across different countries, institutions, departments and disciplines, facilitated by technology. Academics are linked across institutional and national boundaries through technology such as video recordings and videoconferencing to facilitate communication and exchange about learning, teaching and assessment.

In this context, we were interested in improving our understanding about the use of digital technologies to support faculty development activities based on observation, feedback and collaborative reflection.

For this reason, we revised the most recent scientific literature focusing on technologies and web-based tools that allow for collaborative reflection and feedback². The rationale and purpose of the paper is

¹ <https://sites.durham.ac.uk/intref/>

² Therefore, we did not consider self-reflective tools such as reflective journals or e-portfolios.

twofold: on one hand, the paper aims at mapping and exploring what kinds of resources are available to HE teachers to support transnational professional development opportunities based on feedback and collaborative reflection; on the other hand, it tries to understand how faculty development programmes of feedback-based reflective practice be designed to promote dialogical collaborative thinking in the virtual sphere.

The literature review was conducted by applying the following three-step procedure (i.e., search, qualitative synthesis, discussion), inspired by the Search, Appraisal, Synthesis and Analysis (SALSA) analytic framework. The first step regarded the search procedure, which was carried out using the following search query adopted within title, abstract and keywords:

“reflection on teaching” OR (“Reflective Practice” AND teaching) OR (feedback AND reflection AND teaching) AND (“higher education” OR college OR university) AND (online OR web OR technolog* OR video*)

The search was performed on the 25th of June 2020 with the Scopus database and was limited to peer-reviewed journal articles (research and review articles) published in the English language in the last decade (2010-2020). The first search produced 189 results.

After checking for duplicates, we assessed the eligibility of articles as the second step. The articles were assessed according to their relevance regarding the technological dimension and collaborative potential. We considered only articles that discuss in-depth the technological component supporting collaboration in professional development or teacher education.

During this process, we identified further literature to include in the final dataset. Articles were categorized into ‘highly relevant articles’ (i.e. articles where the technological dimension is at the core of the paper and strongly problematized), ‘medium relevance articles’ (i.e. the research article adopts or focuses on technology and gives information about its use), and ‘low relevance articles’ (i.e. the article only uses technology without sufficiently problematize its adoption).

From high relevance and medium relevance articles, we selected a sample of 46 articles representative of different digital technologies. These articles were included in the third step of the procedure, the qualitative synthesis and discussion, aimed at identifying and commenting on the main potential and limits of these technologies for faculty development.

3. Results

The review shows that the majority of studies focuses on teacher education/initial training, partially neglecting collaborative reflection for

continuous professional development (Hamel, Viau-Guay, 2019). Moreover, very few studies refer to the HE sector, and there is an almost complete lack of research in an international development context (Baecher *et al.*, 2018; Major, Watson, 2018), neglecting the increasing internationalization of HE teaching and related mobility of teachers.

Our review found that the most used digital technologies for online professional development of teachers fall in the following areas: online communities such as blogs or discussion forums, video-viewing and video-based feedback (synchronous and asynchronous), and video-annotation tools integrated with virtual environments. Our findings are discussed focusing on these technologies.

3.1. Technologies for online asynchronous discussion: Blogging, discussion Forums and vlogs

Blogs and discussion forums are characterized by asynchronous nature, knowledge sharing and immediacy of responses, which make them suitable spaces for OPD characterized by sharing resources and reflections on teaching. Blogs have been increasingly used in HE. Nevertheless, two literature reviews highlight how they have primarily focused on student learning and experience rather than teacher reflection and feedback to enhance teaching (Kirkwood, Price, 2014; Sim, Hew, 2010).

Current literature argues that teachers use blogs mainly to share knowledge and materials (Booth, 2012). Despite this, they can be recognized as reflective devices that enable externalisation of reasoning, justifications of beliefs and considerations across time, while fostering collaboration and social interactions among fellow teachers (Deng, Yuen, 2011). However, blog posts are often descriptive – like diary entries – and involve reactions and emotional responses to classroom or curricula situations, with reflection often not taking place (Killeavy, Moloney, 2010; Smidt et al. 2018).

For this reason, blogging can be acknowledged as not the most effective tool for sharing personal reflections or reflecting collaboratively, with HE teachers. According to Powell (2017), the success of reflection through blogs greatly depends on the presence of clear learning goals, detailed instructions and safe virtual environments. Indeed, research demonstrates that structured prompts seem necessary for online-focused, guided and supported conversations fostering professional development (Booth, 2012).

On the other hand, within discussion forums, in-depth critical reflection seems promoted through the nature and wording of forum topics. When centred on pedagogical practices, discussion forums can question and scaffold teachers' understanding of the underlying assumptions and underpinning premises about the reason why particular pedagogical approaches are appropriate and effective, or not, and how to replicate and adapt them to the educational context (Dymoke, Harrison, 2008; Jones, 2014).

Thus, forums may overcome isolation and provide critical social support by developing a community of reflective practice that can enable professional learning through reading and inquiring into peer reflections and feedback (Boulton, Hramiak, 2012).

In these spaces, knowledge construction can happen with careful planning and facilitation, with scholars suggesting using synchronous discussion for analysing and debating controversial topics – such as new theories, ideas, or counterposing pedagogical alternatives – to improve the professional learning outcomes. In this regard, facilitators must guarantee the social, cognitive and teachers' presence by making the digital environment a supportive space, providing social support and encouragement, allowing interactions among members and promoting the analysis and discussion through instructions and suggestions (Chen *et al.*, 2009).

One further technology considered in the literature falls between blogging and video-viewing: the vlog. Vlogs or video blogs are recorded videos of the teacher speaking while thinking back across their practice, on understanding or misunderstanding of their actions during practice (Parkers, Kajder, 2010, 219).

In the same extent of blogs, vlogs are believed as excellent platforms for sharing ideas, thoughts, observations and knowledge within a learning community and could be adopted respectively as community-building tools, collaborative tools, and reflective tools (Taylor, 2013). The recent study by Ong, Swanto, and Alsaqqaf (2020) highlights how using vlogs teachers benefitted from reflecting deeply on their practice, but more importantly, by watching their peers they learnt new ideas and techniques they can borrow in their practice.

3.2. Video-viewing and video-based reflection and feedback

In the last 15 years, videos have been increasingly used both for teacher education and professional development, coinciding with an increasing research interest.

Indeed, the majority of articles we examined focuses on video technology, with recent reviews highlighting their possibilities and limits for teacher education and professional development. Compared to classic observation or reflective writing, videos give access to classroom events without sacrificing authenticity and complexity (Rosaen *et al.*, 2008), revealing missed events and making students thinking more visible (Barnhart, van Es, 2015), enhancing teachers' noticing when a particular lens/focus is provided (Gaudin, Chaliès, 2015). Research has demonstrated that using videos can be particularly useful for testing the effectiveness of teaching methods and identifying alternatives, enhancing classroom interaction and questioning, increasing the role of students and their speaking in class, challenging assumptions about students and their learning, and inquiring into their thinking processes to support them (e.g. Brown, Kennedy, 2011; Cho, Huang, 2014; McCullagh, 2012; Harlin, 2014). In this regard, videos can be used with two main

objectives: the developmental and the normative (see Gaudin, Chaliès, 2015). The first one aims to develop the teacher knowledge about how to interpret and reflect on classroom events of personal practice while the second aims to develop teacher knowledge on what to do in class by exposing teachers to exemplar or not exemplar videos of other teachers.

Seeing personal and peer videos can provide teachers with a double mirror – by being faced with an inner and outer perspective. By watching personal videos, teachers can recognize and learn what strategies worked or failed with students and what constitute a good performance and the rules of good functioning (Garcia *et al.*, 2017). On the other hand, viewing a peer video can help to clarify and question personal assumptions on teaching and learning, and develop new related understandings. It has the advantage of increasing knowledge of teaching by exposing teachers to different strategies through developing knowledge-based reasoning skills to analyse personal teaching (Prilop *et al.*, 2020; Kleinknecht, Schneider, 2013). In this way, teachers can improve their professional vision and engage in different sense-making strategies, which may counterbalance self-criticism (Zhang *et al.*, 2011) and contribute to the active self-development of the observer, leading to greater reflection and change in practice (Tenenbergh, 2016). On the other side, videos can promote a shift from descriptive analysis to more focused and interpretative ones, and from the teacher to the students and their learning (Tripp, Rich, 2012a). Moreover, scholars found video-based feedback more specific, better grounded on and supported by evidence, and therefore more accepted by the observed teachers who can compare interpretations with evidence and identify strengths and limits of their practice and approach. To fully exploit the potential of video recordings, the intrinsic limits of the artefact and how to organise the analysis and collaboration should be considered. First, it appears crucial to realise appropriate videos, with choice and recording guided by classroom situation and teacher learning goals (Santagata, Guarino, 2011). Empirical evidence suggests that when teachers' agency and ownership of their learning is promoted, they show deeper reflective practice, are more autonomous, interact more freely, and benefit from formative evaluation (Rosaen *et al.*, 2010; Tripp, Rich, 2012b).

However, the use of videos can bring a high cognitive and emotional load, presenting multiple pieces of information that may overwhelm the teacher (Derry *et al.*, 2014). Therefore video-viewing and analysis should be scaffolded, guided and supported, anticipating elements that may be identified and possible interpretations, avoiding evaluation and providing appropriate frames to structure the inquiry process. Without adequate training and focus, teachers experience multiple difficulties in identifying relevant events in classroom videos, and without a particular filter they tend to focus on elements of little significance, producing a descriptive and superficial reflection (Gaudin, Chaliès, 2015).

Different studies demonstrated the necessity of prompting participants (e.g., Danielowich, McCarthy, 2013), or providing scaffolding for

supporting teachers' reflective practice (Blomberg *et al.*, 2013), though warning about using predetermined checklists constraining the gaze and perception of the situation by the observer (Shortland, 2010).

Altogether, this literature supports the idea that higher levels of reflection cannot be reached just by watching videos, but that a structured learning process has the potential to support reflection. Despite this large body of research, very little is known about how video-based protocols pragmatically support reflection (Danielowich, 2014), especially in the higher education sector. The use of video is often described in general terms and few studies document the trainer/facilitator contribution in the protocols (Arya *et al.*, 2013a), or describe in detail the instructions and how the video is integrated into instruction (Baecher *et al.*, 2018).

3.3. Video-annotation collaborative tools and digital-based feedback and reflection environments

To avoid cognitive load, some scholars suggest focusing on short clips, which focuses the attention on a particular issue seem to be more useful than longer videos raising a host of issues (Bates *et al.*, 2016; Sherin *et al.*, 2009).

In this regard, video-annotation collaborative tools integrated into digital environments can be more suitable. These are characterised by a simple graphic-based interface integrating a viewing area and space where users can add and edit comments on specific segments/clips.

Our review highlights that research on video-annotation is recent, limited, and mostly with pre-service teachers (e.g. Colasante, 2010) or focusing on personal reflection. For example, the study by McFadden *et al.* (2014) used video annotation technologies to provide teachers with the ability to add time-marked text annotations to their classroom video and reflect on their practice. They found that teachers' annotations revealed a predominance of the lower-level reflective stances and that the technology usability and accessibility must be complemented by structured assignment and facilitation within the tool.

However, when used in a collaborative way, research demonstrates that video-annotation can augment and extend the reflective experience by facilitating and collaboratively structuring the analysis process, receiving feedback from multiple participants/perspectives. The study by Picci, Calvani, and Bonaiuti (2012) argues that some aspects are fundamental to increase the usefulness, appeal and ease of use of collaborative video-annotation technologies: the sharing and negotiation of observation criteria among participants and specific training on feedback.

Other scholars put it that the permanency of comments provides teachers with a written record for later reflection, and enough time to consider the feedback thoroughly and compare their viewpoint with other peers (Straková, Cimermanová, 2018; Kassner, Cassada, 2017). The advantage is to expose teachers to diverse peer coaching, questioning,

observations that may elevate the quality of analysis and feedback, allowing the integration of positive, critical and counterbalanced perspectives into reflection on self and other teaching events (Kleinknecht, Gröschner, 2016).

Despite this, synchronous discussion can be more effective in supporting higher-order thinking and ensuring cognitive presence in the online environment.

Conclusions

The affordance of technologies to promote the social construction of knowledge is effective when technologies are acted and used as a medium or stimulus for collaborative learning, appropriately choosing and using them aligned with education purposes, recognizing the connection between technology, content and pedagogy (see Jones, 2014).

The literature examined suggests exploring and using technologies giving priority to those who result as user-friendly, familiar or that can be easily integrated into everyday life and habits to increase the perceived ease of use and usefulness for boosting social interactions and increasing satisfaction.

The review shows that the success of technology-mediated collaborative reflection depends on how instructors/facilitators assist with the process, guaranteeing social, cognitive and teacher presence, how collaboration is socially organized, and what instruments/lenses are provided for inquiry, reflection and feedback about teaching and learning. While teachers should be the owners of their learning path and have adequate agency in the process, they need to be trained and guided in reflecting writing, video-viewing (noticing and interpreting events) as well as on feedback and strategies for scaffolding critical reflection of colleagues (e.g. framing, oppositional voice, counterposing alternatives, see e.g. Clara *et al.*, 2019) to foster effective use of technologies for professional learning purposes.

Regarding future areas of research, we found limited evidence on the use of video-conferencing technology to support synchronous discussion (see e.g., Lenkaitis, 2020), and collaborative inquiry (such as in video-viewing); technologies that may enable the development of reflective experiences and communities across countries and institutions.

Moreover, while the technologies discussed in this review may allow the integration of students' perspective and voice into personal and collaborative reflection on teaching (e.g., Huxham *et al.*, 2017), therefore taking full advantage of Brookfield stance on the dialogical inquiry into teaching (1995), this represents a field of research almost unexplored that deserves further attention.

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