A = Journal of Digital Landscape Architecture; B = Journal of Landscape Architecture; C = Landscape Research Record; D = Landscape Research; E = Landscape Review; F = Landscape Journal   G = ASLA Professional Award Winning Projects; H = ASLA Student Award Winning Projects   * Red text refers to the articles or research papers not containing specific TLA knowledge

Reference Number	Article Title	LA Core Domains	Research Topics	DTT Incorporated	TLA Specializations	Doi
G1	Urban Ecology: Landscape Design Principles and Practices for Water Quality Improvement in the Lower Bronx River	Landscape Planning and Ecology	Public and Community Engagement and Decision-making; Ecology and Resilience; Visual Communication;	Archival Research-RTD	Geographic Information System (GIS); Photography-based digital visualization	Guideline for professionals and citizens to gain a comprehensive look at a more sustainable urban design, and improvement of environmental conditions through keeping all of the urban design issues together.	
H1	Site Unseen	Human and Environment Relationships	Visual Communication; Observation and Measurement of Environment; Urban Public Space; Sociocultural in human spaces; Social and landscape identity	Archival Research-RTD	Photography-based digital visualization	Approach to uncover the potential meaning of small spaces in the city that are typically ignored.	
G2	Intrinsic Landscape Aesthetic Resource Information System	Landscape Planning and Ecology	Anthropogenic pressures; Ecology and Resilience; Landscape Assessment; Adaptive design, planning, management, and governance; Visual Communication; Human Perceptions and Attitudes;	Archival Research-RTD	Geographic Information System (GIS); Computational Analysis and Evaluation;	Approach to facilitate landscape-level conservation plans that protect the intrinsic character of a region	
G3	From Landscapes to Lots: Understanding and Managing Midwestern Landscape Change	Landscape Planning and Ecology	Viewshed Analysis; Adaptive design, planning, management, and governance; Mountain forest preservation and management; Landscape Change; Landscape Assessment;	Archival Research-RTD	Geographic Information System (GIS); Computational Analysis and Evaluation;	Framework for designers, planners, managers, and policymakers to understand and guide development oriented landscape change in the Midwestern US	
H2	New Orleans: Community Rebuilding & Hazard Mitigation	Design Education and Pedagogy	Climate change mitigation and adaptation; Community resilience and capacity building; Adaptive design, planning, management, and governance; Visual Communication;	Archival Research-RTD	Photography-based digital visualization; Video, audio, and visual technology	Method for students of their important role in the future of providing assistance in their communities in the event of a natural disaster while public officials and citizens benefited through the work of the students	
H4	Bayou as Infrastructure	Human and Environment Relationships	Public and Community Engagement and Decision-making; Visual Communication; Educational Design, Practice and Evaluation; Green infrastructure	Archival Research-RTD	Photography-based digital visualization	Framework for conveying relate concept of infrastructure and enhances peoples understanding of these systems on an urban scale.	
G4	Navigating Bigness: Redefining Corporate Landscape	History, Culture, and Theory	Corporate landscape; Public and Community Engagement and Decision-making; Landscape Assessment; Sustainable Urbanism; Predictive models of benefits	Archival Research-RTD	Photography-based digital visualization; Geographic Information System (GIS); Global Positioning System (GPS), Google Earth	Method to define corporate landscape	
H5	The Challenge of Change in the Public Lives of the Elderly Through Landscape Affordance	Landscape Design and Implementation	Human Perceptions and Attitudes; Sociocultural in human spaces; Landscape Assessment; Public Health	Archival Research-RTD	Computational Analysis and Evaluation	Method to connection between the landscape architecture quality, the experience of attention, and the use of outdoor facilities lead to setting up Demand Quality & Invitation Quality for the elderly to give them the feeling of living close to the public and not segregated or forgotten by the society.	
H6	Creating the Cartographic Landscape: Maps, Representation, and Cognition	Landscape Design and Implementation	Visual Communication; Landscape Assessment	Archival Research-RTD	Geographic Information System (GIS); Photography-based digital visualization	Method to identify different connections between mapping and landscape design could have been highlighted	
G4	The Green-Build-out Model: Quantifying Stormwater Benefits of Trees and Greenroofs in Washington, DC	Landscape Design and Implementation	Water Best Management Practice; Green infrastructure; Sustainable Urbanism; Community resilience and capacity building;	Archival Research-RTD	Geographic Information System (GIS); Computational Analysis and Evaluation;	Approach to demonstrates the efficacy of tree cover and greenroofs as stormwater BMPs on a citywide scale for the District of Columbia, and that trees and greenroofs should be a significant component of any solution to the long-term management of stormwater in the District of Columbia. These conclusions are being used as a basis to evaluate planning, design, regulatory, and incentive policies and practices in Washington, DC	
H7	Visual Preference for Stormwater Pond Edge Treatments	Landscape Design and Implementation	Human Perceptions and Attitudes; Ecology and Resilience; Green infrastructure	Archival Research-RTD	Photography-based digital visualization	Method to develop a win-win solution for stormwater retention pond stakeholders.	
H8	Half a Million Trees: Prototyping Sites and Systems for Sustainable Cities	Landscape Design and Implementation	Sustainable Urbanism	Archival Research-RTD	Geographic Information System (GIS)	Method to evaluated current practices and proposed new strategies for preserving and reclaiming urban forest cover.	
G5	Restoration ecology processes to advance natural landscape design	Landscape Planning and Ecology	Biology, wildlife habitat and biodiversity; Visual Communication; Ecology and Resilience; On-site fieldwork and real-time analysis	Archival Research-RTD	Computational Analysis and Evaluation	Method that can be apply to the master planning of new urban park to improve landscape design and insure sustainable habitats	
H6	SAFARI 7	Human and Environment Relationships	Visual Communication; Human Perceptions and Attitudes; Biology, wildlife habitat and biodiversity; Sustainable Urbanism;	Archival Research-RTD	Web-based Interactive Map	Software that uncover the complexity, biodiversity and potentials of New York's urban ecosystem along this route creating a new way for New Yorkers to connect with their environment.	
H9	Species Evolution On Steep Sloped Green Roofs	Landscape Design and Implementation	Green infrastructure; Construction materials, technologies and management;	Archival Research-RTD	Computational Analysis and Evaluation;	Guideline for the development of green roof design and implementation rationally by describing the ecological succession that we might expect among twelve varieties of sedum in a steep green roof system.	
G7	The Forensics of Ancient Landscape Architecture: Methods and Approaches to Excavating Relief Gardens and Designed Landscapes	History, Culture, and Theory	Historical Narrative and Preservation	Archival Research-RTD	Remote Sensing	Method that develop archaeological techniques to recover ancient Roman-designed landscapes in the Mediterranean	
G8	Getting to Minus 30: Defining the Contribution of Urban Form to Achieving Greenhouse Gas Emission Reduction Targets	Human and Environment Relationships	Landscape research and management; Environmental Monitoring; Climate change mitigation and adaptation	Archival Research-RTD	Geographic Information System (GIS)	Framework that evaluates and describes in detail the combinations of urban form strategies that landscape architecture professionals can propose and implement to achieve up to an 80 to 84 percent reduction in relative GHG emissions, and beyond	
H9	Access to Nature for Older Adults: Promoting Health Through Landscape Design	Human and Environment Relationships	Public Health; Human Perceptions and Attitudes	Archival Research-RTD	Computational Analysis and Evaluation;	Method that contribute to public health by improving the well-being of frail elderly residents in long-term care settings	
H10	Interactive Ecoregional Management Plan (I.E.M.P)	Human and Environment Relationships	Visual Communication; Ecology and Resilience; Human Perceptions and Attitudes;	Archival Research-RTD	Web-based Interactive Map	Software that by creating journeys of opportunity into empowerment and problem-solving for various stakeholder groups to assist collaborative decision-making across different scales of various landscapes	
H11	The Cooling Ability of Urban Parks	Sustainability	Climate change mitigation and adaptation; Sustainable Urbanism; Urban Public Space; Parks, Recreation and Tourism Management	Archival Research-RTD	Physical Sensors	Method to generate design implications that can guide urban park and street design, creating cooler neighborhoods, increased human thermal comfort, and climate-sensitive design	
H12	Discovering the Grand Canal Heritage in the Changing Landscape	History, Culture, and Theory	On-site fieldwork and real-time analysis; Historical Narrative and Preservation; Landscape Assessment	Archival Research-RTD	Geographic Information System (GIS)	Method of integrationg heritage identification of the Grand Canal taking the care of lining section, which features the highest hydro-engineering difficulty of the canal	
H14	Flood, Flow, Flux: Livelihoods on the Kafue Flats, Zambia	Landscape Planning and Ecology	Emergency hazard management and design; Climate change mitigation and adaptation; Human Perceptions and Attitudes;	Archival Research-RTD	Video, audio, and visual technology; Global Positioning System (GPS), Google Earth; Photography-based digital visualization	Method of re-valuing of the seasonal floods and flood-dependent livelihoods	
G10	Stormwater from KC to the Sea, An Experiential Curriculum for Students in the 4th-6th Grades	Design Education and Pedagogy	Visual Communication; Educational Design, Practice and Evaluation; Public and Community Engagement and Decision-making; Water Best Management Practice; Green infrastructure	Archival Research-RTD	Photography-based digital visualization; Video, audio, and visual technology;	Framework for school to teach student interactively to learn about stormwater, watershed and Best Management Practices (BMPs).	
H15	Backyard Farm Service: A Business Plan for Localizing Food Production	Urban Design	Urban Food System; Visual Communication; Predictive models of benefits	Archival Research-RTD	Geographic Information System (GIS)	Method for localizing food production, enhancing ecological diversity and food security, and physically reinvigorating agricultural production into the fabric of our cities and suburbs	
G12	Multi-Variate Study of Stormwater BMPs	Landscape Performance	Water Best Management Practice; Environmental Monitoring;	Archival Research-RTD	Physical Sensors; Computational Analysis and Evaluation;	Method of analyzing BMP performance, the evaluation of vegetation and soil composition, and recommended design modifications	
H14	Network-Landscapes — New Control Options for Landscape Architecture and Environmental Planning	Landscape Design and Implementation	Data Infrastructure; Landscape and Integrative Design; Human Perceptions and Attitudes	Archival Research-RTD	Crowdsourcing; Geographic Information System (GIS); Parametric and Computational Algorithms; Social media data mining processes	Methods for putting crowdsourcing knowledge into use in Landscape Architecture and Environmental Planning	
C1	FINDING MULTI-CENTERS: USING CROWD-SOURCING TECHNOLOGIES TO IDENTIFY COMMUNITIES OF LANDSCAPE ARCHITECTURE	Human and Environment Relationships	Sociocultural in human spaces; Social and landscape identity;	Secondary Research-RFD	Crowdsourcing; Social media data mining processes; Global Positioning System (GPS), Google Earth;	Method to identify social and geographic topic hotspots within the fields of architecture, landscape architecture, and urban design	
C2	*3D Digital Graphics in Landscape Architecture Professional Practice: Current Condition in a Nutshell*	*Landscape Design and Implementation*	*Visual Communication;*	*Secondary Research-RFD*	*3D Modelling; Geographic Information System (GIS); Global Positioning System (GPS), Google Earth*		
C3	SPACE, TIME, PLACE, DURATION: GEOSPATIAL FRAMING AND SENSING IDENTITIES OF LANDSCAPE ARCHITECTS	History, Culture, and Theory	Sociocultural in human spaces; Social and landscape identity;	Secondary Research-RFD	Geographic Information System (GIS); Crowdsourcing	Method for geospatial and lexicographical delineation of landscape architecture identities	
C4	RETHINKING STORMWATER MANAGEMENT IN A CHANGING WORLD: EFFECTS OF DETENTION FOR FLOODING HAZARD MITIGATION UNDER CLIMATE CHANGE SCENARIOS IN THE CHARLES RIVER WATERSHED	Sustainability	Climate change mitigation and adaptation; Emergency hazard management and design; Green infrastructure; Climate change mitigation and adaptation;	Secondary Research-RFD	Statistical Modelling; Parametric and Computational Algorithms;	Strategy of arranging on-site detention techniques in mitigating climate change-induced flooding hazards	
D6	Visual Perception of Agricultural Cultivated Landscapes: Key Components as Predictors for Landscape Preferences	Landscape Performance	Agriculture and Cultivated Landscape; Human Perceptions and Attitudes; Environmental Philosophy; Landscape Assessment;	Secondary Research-RFD	Photography-based digital visualization; Geographic Information System (GIS);	Guideline of general theoretical discourse on the visual perception of agricultural cultivated landscapes, thus providing some preliminary insights relevant to the management of agricultural landscapes in Israel	
B8	Green Roof Innovation Testing (GRIT) Laboratory	Landscape Design and Implementation	Green infrastructure; Observation and Measurement of Environment; Environmental Monitoring; Energy efficiency, carbon, and energy footprint; Landscape research and management; Public Environment Policies and Evaluation; Sustainable Urbanism	Secondary Research-RFD	Parametric and Computational Algorithms; Statistical Modelling; Physical Sensors;	Guidelines associated with 'green' technologies in order to provide an unprecedented, comprehensive, dynamic and hands-on understanding of the water energy-biology nexus in the context of regional and climatic-specific priorities	
G13	Green Infrastructure Master Plan	Landscape Design and Implementation	Green infrastructure; Water Best Management Practice; Sustainable Urbanism;	Secondary Research-RFD	Geographic Information System (GIS); Computational Analysis and Evaluation	Guideline for how to plan for and utilize best management practices for the highest benefit in this particular region based on region-specific data	
E1	Immersive and Temporal Experiences in Historic Landscapes: Designing a Mobile Digital Guide for the Royal Botanic Gardens Melbourne	History, Culture, and Theory	Historical Narrative and Preservation; Visual Communication;	Secondary Research-RFD	Mobile Technologies; Global Positioning System (GPS), Google Earth	Guideline for Mobile Digital Garden Design	
A1	*Generating Relative digital phenomenology & Contemporary Landscape Architecture*	*Landscape Design and Implementation*	*Visual Communication;*	*Secondary Research-RFD*	*Photography-based digital visualization*		
A2	*Visualizing Sea-Level Rise at a Coastal Heritage Site: Participatory Process and Creative Communication*	*Landscape Design and Implementation*	*Visual Communication; Wetlands and coastal margins; Climate change mitigation and adaptation; Public and Community Engagement and Decision-making; Community resilience and capacity building; Water Best Management Practice; Historical Narrative and Preservation*	*Secondary Research-RFD*	*Video, audio, and visual technology; Remote Sensing; 3D Modelling*		
H15	The Phenology Project	Landscape Performance	Landscape Change; Visual Communication;	Secondary Research-RFD	Photography-based digital visualization;	Method to represent the a plant pollinator that correlates the spatial and textural qualities as they change through the seasons	
A3	*SOCIAL MEDIA AS A VISUALIZATION TOOL: MAPPING THE URBAN LANDSCAPE*	*Landscape Design and Implementation*	*Data Infrastructure; Visual Communication;*	*Secondary Research-RFD*	*Social media data mining processes; Mobile Technologies;*		
C6	EFFECTS OF LANDSCAPE CHANGE IN URBANIZING COASTAL ECOSYSTEMS	Landscape Planning and Ecology	Ecology and Resilience; Wetlands and coastal margins; Sustainable Urbanism; Public Environment Policies and Evaluation; Climate change mitigation and adaptation;	Secondary Research-RFD	Statistical Modelling	Guideline in analyzing the water quality	
D7	Habitat Suitability and Landscape Structure: A Maximum Entropy Approach in a Mediterranean Area	Landscape Planning and Ecology	Biology, wildlife habitat and biodiversity;	Secondary Research-RFD	Geographic Information System (GIS); Statistical Modelling	Approach (Maxent) to the development of a niche-based model for species of conservation interest and to relate this model to landscape structure metrics.	
D4	Mapping Alpine Landscape Values and Related Threats as Perceived by Tourists	Landscape Planning and Ecology	Parks, Recreation and Tourism Management; Landscape Assessment; Historical Narrative and Preservation	Archival Research-RTD	Geographic Information System (GIS)	Guideline of Tourists Perceived Landscape Values and Related Threats	
G14	Landscape Performance Series: Demonstrating the Environmental, Social, and Economic Value of Sustainable Landscapes	Landscape Design and Implementation	Data Infrastructure; User Experience (UX) Design;	Secondary Research-RFD	Web-based App;	Software of online calculators (app) and estimating landscape performance	
G15	Spontaneous Urban Plants	Urban Design	Public and Community Engagement and Decision-making; Sustainable Urbanism; Educational Design Practice and Evaluation; Data Infrastructure;	Archival Research-RTD	Photography-based digital visualization; Social media data mining processes; Web-based App; Web-based Interactive Map	Software for a user-generated database of weeds in the urban environment that maps images from the photography application Instagram tagged with #spontaneous urban plants, and filters them based on species, ecological benefits and deservices to the environment	
A1	Digital Age for Observations: The Use of GIS for Analyzing Observations and Behaviour Mapping	Human and Environment Relationships	Human Perceptions and Attitudes; Observation and Measurement of Environment; Urban Public Space; Teenager design;	Secondary Research-RFD	Geographic Information System (GIS); Mobile Technologies	Strategy for observing some experiences of children (TUWEC) and the adaptation of this tool on to portable devices (GYSWEC) for simultaneous data collection on the site	
A2	Topological Thinking: Digital Systems in Landscape Urbanism	Urban Design	Sustainable urbanism;	Secondary Research-RFD	Topology Evaluation; Statistical Modelling	Method combines topological space and topographic connectivity for modeling and designing	
A3	Shoal Ecosystem: Modelling Scenarios of Vulnerable Marine Landscapes	Sustainability	Observation and Measurement of Environment; Wetlands and Coastal Margins;	Secondary Research-RFD	Photography-based digital visualization	Strategy through building a hazard model of the marine environment, which includes the complex mangrove structures to visualize authentic scenarios	
A4	GIS-Based Accessibility Analysis for Neighbourhood Parks: The Case of Cukurova District	Urban Design	Land Use; Public Environment Policies and Evaluation; Connectivity, Accessibility and Walkability;	Secondary Research-RFD	Geographic Information System (GIS); Statistical Modelling; Statistical Modelling	Guideline for Levels of serviceability of (Neighborhood Parks) NPs	
A5	The Relationship Between the Pedestrian Lighting Environment and Perceived Safety	Landscape Design and Implementation	Human Perceptions and Attitudes; Streetscape and Design of Pedestrian; Nightscape and Lighting Environment; Construction materials, technologies and management; Landscape research and management	Secondary Research-RFD	Photography-based digital visualization	Guideline for Pedestrian Lighting Design	
A6	Systematic Thinking and Digital Design: Simulating Natural Waterscape Design with the Software ArcGIS	Landscape Design and Implementation	Natural Process Simulation; Educational Design Practice and Evaluation	Secondary Research-RFD	Geographic Information System (GIS);	Guideline for artificial natural waterscape Design and Construction	
A7	The Use of 3D Modelling Creating Tool for Landscape Design: Camera	Landscape Design and Implementation	Educational Design Practice and Evaluation; Observation and Measurement of Environment;	Secondary Research-RFD	3D Modelling; Open Source and Programming	Framework for 3D Modelling Creating Tool	
A8	Using Landscape Visualization to Inform Streetscape Design	Urban Design	Streetscape and Design of Pedestrian; Human Perceptions and Attitudes; Green infrastructure;	Secondary Research-RFD	3D Modelling;	Guideline of safety in commercial district streetscape	
A9	*Distributed Site Analysis Utilizing Drones and Off-nadir Video*	*Landscape Design and Implementation*	*Educational Design Practice and Evaluation; Observation and Measurement of Environment;*	*Secondary Research-RFD*	*Unmanned aerial vehicles (drones); Virtual reality; Video, audio, and visual technology;*		
A10	Exploring Issues of Immersive Virtual Landscapes for the Support of Participatory Spatial Planning Support	Landscape Planning and Ecology	Observation and Measurement of Environment; Human Perceptions and Attitudes; Landscape Assessment;	Secondary Research-RFD	Virtual reality; Gaming Engine; Geographic Information System (GIS);	Framework identifies suitable and valid immersive VR for landscape quality assessment	
A11	Immersive Environment: Discussing Child Friendly Urban Spaces with Teenagers	Urban Design	Teenager design; Public and Community Engagement and Decision-making; Educational Design Practice and Evaluation; Landscape Assessment;	Secondary Research-RFD	Virtual reality; 3D Modelling; Gaming Engine;	Method that involves teenagers in neighborhood design	
A12	*The World's Infinit Plants in a Single Glasshouse: Creating a Utopian Virtual Reality Diorama*	*Design Education and Pedagogy*	*Landscape Assessment; Educational Design Practice and Evaluation;*	*Secondary Research-RFD*	*Virtual reality; Gaming Engine; 3D Modelling;*		
A13	Here Comes the Sun: A Prototypical GIS-based 3-dimensional Rooftop Solar Potential Analysis to Support the Energy Turnaround	Landscape Planning and Ecology	Energy landscapes, carbon, and energy footprint; Construction materials, technologies and management;	Secondary Research-RFD	Digital Surface Models (DSM); Geographic Information System (GIS);	Method of creating GIS-based 3-dimensional solar potential model based on high resolution digital surface models	
A14	Long-thin - Ancient Geodesign as a Clue: Identifying Predictive Landform Models of Mountain Flood Impact Zones	Landscape Planning and Ecology	Emergency hazard management and design; Urban Theory; Environmental Philosophy;	Secondary Research-RFD	Geographic Information System (GIS)	Guideline of building predictive models for protecting from flood hazard	
A15	A Portrayal of Uncertainty: Revealing Problems and Opportunities of Landscape Change via Details Cellular Automata Model	Landscape Performance	Sustainable Urbanism; Landscape Change	Secondary Research-RFD	Geographic Information System (GIS); Statistical Modelling	Guideline of blending information techniques such as SLEUTH cellular automata model, GIS and so on with geography and landscape	
A16	*The Role of Social Media Geographic Information (SMGI) in Geodesign*	*Landscape Planning and Ecology*	*Data Infrastructure;*	*Secondary Research-RFD*	*Social media data mining processes;*		
A17	The Spatial Planning of Australia's Energy Landscape: An Assessment of Solar, Wind and Biomass Potential at the National Level	Landscape Planning and Ecology	Climate change mitigation and adaptation; Energy landscapes, carbon, and energy footprint; Sustainable Urbanism; Anthropogenic pressures	Secondary Research-RFD	Geographic Information System (GIS)	Method enabled by spatial planning through geodesign principles to investigate the spatial heterogeneity of solar energy potential across the country towards identifying the strengths and appropriate uses of spatial modelling for regional decision-making in energy planning	
A18	*Promoting Geodesign Approaches in Practice: Case of Cygnes and Kumli Malta Urban Parks in Istanbul, Turkey*	*History, Culture, and Theory*	*Urban Public Space; Land Use; Educational Design Practice and Evaluation*	*Secondary Research-RFD*	*Geographic Information System (GIS); 3D Modelling;*		
A19	*Geodesign to Tame Wicked Problems*	*History, Culture, and Theory*	*Landscape Change; Public and Community Engagement and Decision-making; Sustainable Urbanism; Educational Design Practice and Evaluation*	*Secondary Research-RFD*	*Geographic Information System (GIS); Web-based Interactive Map*		
A20	Estimating Stormwater Runoff from the 3D-model of an Urban Area in Istanbul	Landscape Design and Implementation	Water Best Management Practice; Natural Process Simulation	Secondary Research-RFD	Topology Evaluation; Parametric and Computational Algorithms;	Software which works in conjunction with Rhinoceros software, that both estimates and reports storm water runoff	
A21	Structural Visibility Analysis for Energy Infrastructure: Investigating the Cost-efficiency and Validity as Precondition for Practical Implementation	Landscape Design and Implementation	Landscape Assessment; Energy landscapes, carbon, and energy footprint;	Secondary Research-RFD	Digital Surface Models (DSM); Computational Analysis and Evaluation; Geographic Information System (GIS)	Approach of raising data on a cloud-based platform for conducting visibility analyses in landscape planning	
A22	Reflecting Time in Computer-aided Landscape Design and Analysis: Developing an Application for Modelling Seasonality and Resiliency in Small Scale Landscapes	Landscape Design and Implementation	Planting design; Ecology and Resilience; Environmental Monitoring;	Secondary Research-RFD	Parametric and Computational Algorithms;	Software in Processing programming language that addresses the influence of time-related factors such as seasonality and environmental changes on planting design	
A23	*Geodesign as an Educational Tool: A Case Study in South Cache Valley, Utah*	*Design Education and Pedagogy*	*Educational Design Practice and Evaluation*	*Secondary Research-RFD*	*Geographic Information System (GIS);*		
A24	*The Use of Mobile Devices in Participatory Decision-making*	*History, Culture, and Theory*	*Public and Community Engagement and Decision-making;*	*Secondary Research-RFD*	*Mobile Technologies; 3D Modelling;*		
A25	*Mobile Augmented Reality for Flood Visualisation in Urban Riverside Landscapes*	*Sustainability*	*Emergency hazard management and design; Natural Process Simulation; Observation and Measurement of Environment; Water Best Management Practice;*	*Secondary Research-RFD*	*Geographic Information System (GIS); Augmented Reality; Mobile Technologies; 3D Modelling;*		
A26	*Crowdsourcing (in) Voluntary Citizen Geospatial Data from Google Android Smartphones*	*Human and Environment Relationships*	*Public Health; Connectivity, Accessibility and Walkability;*	*Secondary Research-RFD*	*Crowdsourcing; Geographic Information System (GIS); Global Positioning System (GPS), Google Earth; Mobile Technologies;*		
A27	Hidden Dimensions: Illuminating Landscape History through Mobile Apps	History, Culture, and Theory	Sociocultural in human spaces; Environmental Philosophy;	Secondary Research-RFD	Mobile Technologies; Geographic Information System (GIS);	Software (Hidden History) covers and contributes local knowledge to the content	
A28	Adapting Soundscape Technology to Assess Urban Landscape Performance	Urban Design	Human Perceptions and Attitudes; Urban Public Space; Observation and Measurement of Environment; Soundscape	Secondary Research-RFD	Mobile Technologies;	Method of collecting the data of sound	
A29	*Future Scenarios for the Pampulha Region: A Geodesign Workshop*	*History, Culture, and Theory*	*Public and Community Engagement and Decision-making; Data Infrastructure; Sustainable Urbanism;*	*Secondary Research-RFD*	*Geographic Information System (GIS); Planning Support System*		
A30	*Teaching Landscape Spatial Design with Grading Studies: An Experiment Based on High Fidelity DTM*	*Design Education and Pedagogy*	*Educational Design Practice and Evaluation*	*Secondary Research-RFD*	*3D Modelling;*		
A31	Development of an Educational Video Game for the Teaching of Landscape Grading Principle	Design Education and Pedagogy	Educational Design Practice and Evaluation;	Secondary Research-RFD	Gaming Engine; 3D Modelling; Virtual reality	Method of using educational video game as a learning support tool that helps undergraduate landscape architecture students to acquire the essential knowledge and skills for the basics of landscape grading	
A32	*Landscape Awareness of Childhood in Computer Games: In the Case of 'Minecraft'*	*Design Education and Pedagogy*	*Human Perceptions and Attitudes; Teenager design; Visual Communication; Educational Design Practice and Evaluation;*	*Secondary Research-RFD*	*Gaming Engine*		
A33	Coding Landscape: Teaching Computer Programming to Landscape Architects	Design Education and Pedagogy	Educational Design Practice and Evaluation;	Secondary Research-RFD	Geographic Information System (GIS); Open Source and Programming; Parametric and Computational Algorithms; 3D Modelling	Approach of landscape architecture-specific that teaching introductory computer programming	

ID	Title	Category	Themes	Research Type	Methods / Technologies	Description	Link
A227	Virtual Studio 1.0: A Virtual Tacit-forward Learning Management Framework	Design Education and Pedagogy	Educational Design Practice and Evaluation; Planting Design; Human Perceptions and Attitudes	Secondary Research-RFD	Parametric and Computational Algorithms; 3D Modelling; Photography-based digital visualization; Web-based App;	Framework for virtual learning, which includes the creation of a Virtual Studio learning management system that supports formal and informal tacit learning, a faculty reflection, and student perceptions of the Virtual Studio in supporting an online planting methods course during COVID-19 restrictions.	(link)
A228	Tangible Landscape: A Waterway Design Education Tool	Design Education and Pedagogy	Educational Design Practice and Evaluation; Natural Process Simulation	Secondary Research-RFD	Tangible User Interface (UI); Geographic Information System (GIS); Remote Sensing; Parametric and Computational Algorithms;	Method of using tangible landscape and the developed thread-based design approach to design alternative waterways in a riverine area taking into consideration the impact of waterflow on the landscape as a result of the designed waterways	(link)
A229	Teaching Urban Landscape Microclimate Design Using Digital Site Visit: A Mosaic Method of Embedding Data, Dynamics, and Experience	Design Education and Pedagogy	Educational Design Practice and Evaluation; Microclimate; Observation and Measurement of Environment	Secondary Research-RFD	Gaming Engine; Global Positioning System (GPS); Google Earth; Physical Sensors	Method for creating a multi-model digital site visit which draws on traditional site visit methodologies and positions these within a curated digital environment to produce a 'mosaic' of virtual data, representations, design theory and research, as a tool for teaching urban microclimate design	(link)
80	Automotive urban landscapes: Exploring public programmes for adaptive reuse of underground car parks	Urban Design	Sustainable Urbanism; Adaptive design, planning, management, and governance; Car Park Design	Secondary Research-RFD	Photography-based digital visualization	Strategy of underground car parks adaptive reuse in urban public design	(link)
C27	ANALYZING THE TRANSFORMATION OF PRE AND POSTDEVELOPMENT WETLAND AREAS IN PURBACHAL NEW TOWN, BANGLADESH	Landscape Planning and Ecology	Wetlands and coastal margins; Sustainable Urbanism	Secondary Research-RFD	Geographic Information System (GIS); Remote Sensing; Statistical Modelling;	Method that facilitates the development of sustainable design strategies	(link)
C28	*THE VOICE OF ENGAGEMENT: A UNIVERSITY-LED COMMUNITY CONFEDERATION STRATEGY TO BUILD PUBLIC TRUST*	*Design Education and Pedagogy*	*Public and Community Engagement and Decision-making; Educational Design Practice and Evaluation; Visual Communication*	*Secondary Research-RFD*	*Geographic Information System (GIS); Web-based Interactive Map;*	*n/a*	(link)
C29	GUIDING DESIGN FOR SEA-LEVEL RISE: AN ITERATIVE METHODS FRAMEWORK	Sustainability	Climate change mitigation and adaptation; Wetlands and coastal margins; Emergency hazard management and design	Secondary Research-RFD	Topology Evaluation	Framework that composed of the design criteria, for climate change design project and to connect research with practice by creating a design-science feedback loop	(link)
D26	Contextualising a heritage assessment toolkit at the pre-planning stage of the historic urban landscape approach: the case of Mrauk-U, Myanmar	Landscape Performance	Historical Narrative and Preservation; Adaptive design, planning, management, and governance; Emergency hazard management and design; Sociocultural in human spaces; Sustainable Urbanism	Secondary Research-RFD	Geographic Information System (GIS)	Framework at the pre-planning stage of the historic urban landscape approach	(link)
D27	Historic construction of diffuse cultural landscape: towards a GIS-based method for mapping the interlinkages of heritage	Landscape Design and Implementation	Historical Narrative and Preservation; Sociocultural in human spaces; Sustainable Urbanism	Secondary Research-RFD	Geographic Information System (GIS); Parametric and Computational Algorithms	Guideline for a forward-looking landscape-based heritage management	(link)
D28	Integrating sense of place into participatory landscape planning: merging mapping surveys and geodesign workshops	Human and Environment Relationships	Human Perceptions and Attitudes; Public and Community Engagement and Decision-making; Visual Communication	Secondary Research-RFD	Planning Support System; Geographic Information System (GIS)	Strategy of integrating sense of place into participatory landscape planning processes	(link)
F1	*Conceptualizing the Remote Site Experience through Immersive Technology: Unraveling the Santa Maria Favela from Students' Perspectives*	*Design Education and Pedagogy*	*Human Perceptions and Attitudes; Educational Design Practice and Evaluation*	*Secondary Research-RFD*	*Virtual reality; Augmented Reality; Web-based App;*	*n/a*	(link)
F1	Proximity of Urban Farms to Contaminated Sites in Baltimore, Maryland	Sustainability	Public Health; Agriculture and Cultivated Landscape; Urban Food System; Environmental Philosophy	Secondary Research-RFD	Geographic Information System (GIS); Computational Analysis and Evaluation	Method that treat urban farming as a healthy and sustainable solution to food insecurity with low risk of contamination	(link)
G26	The Visualizing Equity in Landscape Architecture Project	History, Culture, and Theory	Visual Communication; Environmental Philosophy; Public and Community Engagement and Decision-making	Archival Research-RFD	Statistical Modelling;	Framework for visualising, spatialising, and acknowledging equity for women in landscape architecture	(link)
H18	Foreground for Matter: Designing 3D Printed Clay Bryophytes to Enhance the Built Environment	Landscape Design and Implementation	Biotope, wildlife habitat and biodiversity; Ecology and Resilience; Construction materials, technologies and management;	Archival Research-RFD	Statistical Modelling; 3D Modelling; Parametric and Computational Algorithms	Framework for designing with mosses synthesized through the lessons learned during the experiment informed rapid prototyping through 3D printing with clay	(link)