INDEX

ABC of visual pollution, 96
Academic conferences, 93
Acquisition of data layers representing strata, 63–64
Advertisements, regulating, 46
Advisory Committee on the Aesthetics of Major Engineering Structures, 8
Aesthetics, 2, 6
Analytical Hierarchy Process (AHP), 33, 58–59
Anglo American art philosophy, 4–5
Application of visual pollution, 32–33
Applied intervisibility analysis, 33
ArcGIS tool, 64
Architecturally poor buildings, 19
Art and Architecture Complete, 25–26
Artificial intelligence (AI), 53, 84
Assessment, measurement or quantification of visual pollution, 33–34
Australian public affairs (full text) via Informit (APAFT), 25–26
Awareness promotion among planning professionals, 93–94

Back-stage of the city, 2
Broken roads, 20
Bundaberg Regional Council, Australia, 47

Citizen science, 33, 53, 84
City aesthetics, 5
City District Government Faisalabad Advertisement Bye-laws 2013, 48
Clean City Law, 34
  in Brazil, 39, 43, 45
  in Sao Paulo, 8–9
Closure, 4
Colour photographs, 58–59
Conceptualisation of visual pollution, 31
Continuation, 4
Convolutional Neural Network (CNN), 86
Crowdsourcing, 53, 79

Definitional diversity, 9–11
Demarcation of clusters representing sampling strata, 64
Description of visual pollution, 31–32
Descriptive statistics, 70–74
Dilapidated buildings, 19

Encroachments, 20
Engagement of modern technologies in subject of visual pollution, 78–87
  basic terms, 79–84
  benefits and risks, 87
  examples of application of modern technologies, 85–87
  opportunities and challenges, 88–89

Environment, 2
Environmental Impact Assessment (EIA), 95

Figure, 4
Front-stage of the city, 2

Geographic information system (GIS), 53
  GIS-based viewshed analysis, 33
  GIS-based visualisations, 53
Gestalt's theory of perception and cognition, 4
Google Scholar, 25–27
Graffiti/wall chalking, 19
Gross Domestic Product (GDP), 41, 49

Hanging and cluttered wires, 20
Hanging Laundry in Balcony, Kuwait, 47, 2008
Harmony and balance of built environment, 3–5
Highway Beautification Act of 1965, 7–8, 39–40, 42
Hoarding in Cantonment Areas, 48
Human Development Index (HDI), 41, 49

Image of the City, *The* (Lynch), 5, 7–8
Imageability, 4
Industrialisation, 49
Infrastructure, 49
Institutionalisation of visual pollution in legal framework, 94–95
Inter-visibility and quantitative analysis, 58–59

Jacksonville community initiative in Florida, 39, 42–43

Keyhole Markup Language (KML), 68–69
Khydija's VPA Tool, 54
  application, 61–62
  characteristics, 59–61
Knowledge building on visual pollution, 92–93

Labelled datasets, 86
Laws of visual pollution, 96–97
Legitimacy, 4
Linear Regression (LR), 87
Living places, 6

Management and mitigation of visual pollution, 91
  laws of visual pollution, 96–97
  policy and administrative management frameworks, 92–96
Mapping of visual pollution in study area, 75–76
Microsoft Academic, 25–26
Military Lands and Cantonment Hoarding Policy 2012, 48
Mobile-based data collection, 53

Non-government organisations (NGOs), 91–92

Open Street Map (OSM), 62–63
Opinion surveys, 58–59
Outdoor advertisements, 17

Pakistan, visual pollution in, 48
Parks and Horticulture Authority (PHA), 48
Physical features, 12–13
Poles and transformers, 20
Policy and administrative management frameworks, 92–96
  awareness promotion among planning professionals, 93–94
  institutionalisation of visual pollution in legal framework, 94–95
  knowledge building on visual pollution, 92–93

quantification and mapping of visual pollution in urban centres, 95–96
remedial measures/corrective actions for visual pollution, 95
Political stability, 49
Pollution, 7
ingredients, 32
Print media, 94
Professional workshops, 93–94
Proximity, 4
Public surveys, 58–59
'Publish or Perish' tool, 26–27
Punjab Outdoor Advertisement and Signboards Policy, 48, 2013

Quantification and mapping of visual pollution in urban centres, 95–96
Quantification and spatial mapping of visual pollution, 67–69
data analysis, 69
field survey, 67–69
Quantitative Strategic Planning Matrix (QSPM), 33, 58–59

Regulation/mitigation/control of visual pollution, 34
Regulations for outdoor Advertisements and Billboards, 48
Remedial measures/corrective actions for visual pollution, 95

SAGE Research Methods Online, 25–26
ScienceDirect, 25–26
Scopus, 25–26
Services, 49
Sewer and drains, 19
Signage Bye-laws for Karachi 2003, 48
Similarity, 4
Social media, 94
Solid waste, 19
Sort, Set in Order, Shine, Standardize, Sustain strategy (5S strategy), 37
Spatial sampling for visual pollution assessment, 62–64
acquisition of data layers representing strata, 63–64
demarcation of clusters representing sampling strata, 64
finalisation, 64
Sri Lanka, visual pollution in, 48–49
Standard operating procedures (SOPs), 48, 94–95
Strength Weaknesses Opportunities and Threats (SWOT), 33, 58–59
Sustainable Development Goals (SDGs), 2–3, 6–7
Symbology, 4

Tangential View Landscape Metrics, 33
3D isovist, 33
Town planning practices, 5
Traffic Impact Assessment (TIA), 95

Urban aesthetics, 2–3, 5, 39
Urban environments, 6–7
Urban studies abstracts via EBSCO, 25–26

Visual aesthetics, 6–7
Visual appeal, 39
Visual impact assessment (VIA), 95
Visual pollution, 1–2, 25
Advertising, Signage and Environmental Quality, Portella, 36–37, 2014
books on, 34–37
cases of visual pollution quantification, 54–55
characteristics, 11–12

content-based classification, 30
elements, 2–3
emergence, 7, 9–10
frequency analysis, 28
journal literature, 27–34
multi-dimensional challenge, 20–21
objects, 12–20
Sivaramanan, 37, 2016
social and psychological problems, 1–2
systematic literature review, 25–27
thematic details, 35–36
ungoverned, 2
visual pollution-related publications per country, 29
Visual pollution assessment (VPA), 53–54, 91–92
cases of visual pollution quantification, 54–55
challenges, 55–58
engagement of modern technologies in subject of visual pollution, 78–87
levels, 53–54
mapping of visual pollution in study area, 75–76
mobile-based versions, 94
quantification and spatial mapping of visual pollution, 67–69
recent development on, 59–61
spatial sampling for, 62–64
studies, 56–58
tools and methods, 58–59
visual pollution distribution across urban phenomena, 70–74
VPI, 54
Visual pollution distribution across urban phenomena, 70–74
descriptive statistics, 70–74
Visual Pollution Index (VPI), 54
Visual pollution management initiatives, 39
lessons learned, 49–51
Pakistan, 48
regulatory cases, 40–47
Sri Lanka, 48–49
Visual pollution mitigation project in Kingdom of Saudi Arabia, 39, 45–46
Visual pollution objects (VPOs), 12–14, 53, 91–92
identification process, 14
in major VPO groups, 16
Voxel approach, 33

Web of Science, 25–26
WebGIS, 33