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Fig. 3 shows the scope of the new framework for engineering design verification and validation which is lifecycle based, tracking the progression of engineering designs across four key stages: (i) from the preliminary design stage that sets the requirements, (ii) to the digital design domain, (iii) the physical, product and process development and prototyping phase, and (iv) the consequent ...The practice was refined throughout the northern Mediterranean well into the 1700s. iv As shipbuilding evolved from a craft to a science, drawings replaced full-scale wooden templates. The practice of plotting the patterns for ribs and keels became known as lofting since the attic above the workshop was the only dry unobstructed floorspace large enough to accommodate the 1:1 setting out process. Prof. Dr. Luca Maria Gambardella Director IDSIA Istituto Dalle Molle di Studi sull'Intelligenza Artificiale SUPSI-USI, University of Applied Science and Arts of Southern Switzerland, DTI Department Technology and Innovation, University of Lugano Galleria 21. Introduction. The evolution of Additive Manufacturing (AM) over the past three decades has been nothing less than extraordinary. AM has experienced double-digit growth for 18 of the past 27 years, taking it from a promising set of uncommercialized technologies in the early 1980s to a market that was worth over \$4 billion in 2014. - Computer-aided Design Of User Interfaces Ii : Proceedings Of The 3rd International Conference On Computer-aided Design Of User Interfaces