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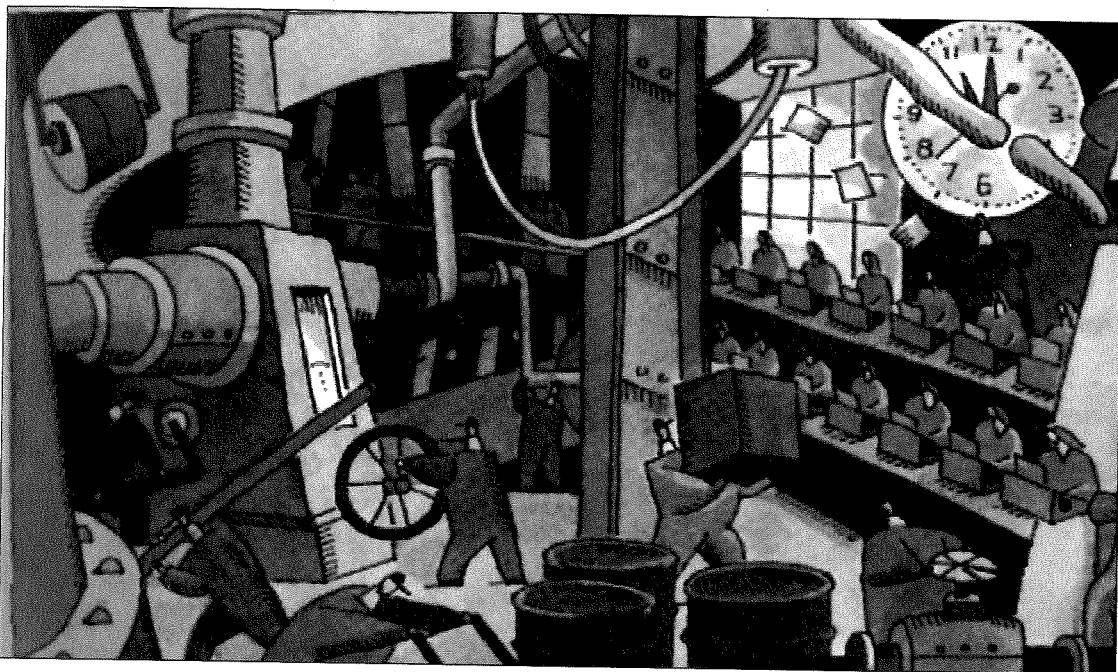
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ENTERPRISE



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MAKING HAY

*Hillyers' Southwest Ag changes, grows and profits
in the topsy-turvy farm equipment industry*

DOUG STORM
EDITOR

GEM VILLAGE — How does a farm equipment dealer survive when the agriculture industry sags? "With smoke and mirrors," says Dennis Hillyer, president and general manager of Southwest Ag Inc.

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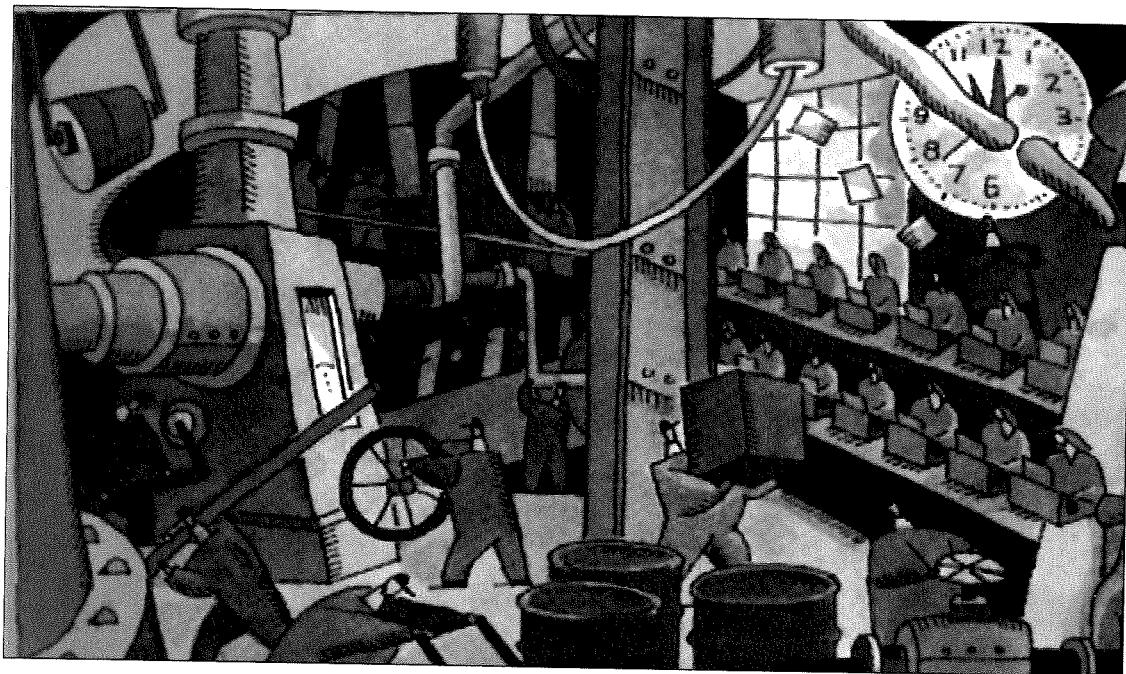
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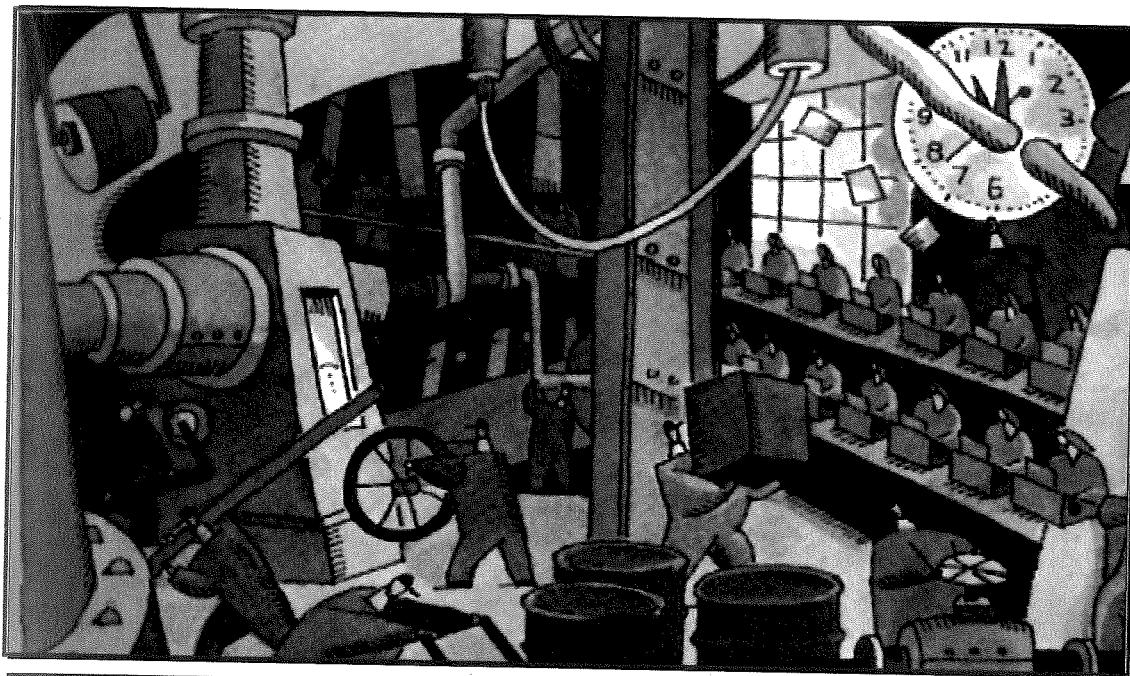
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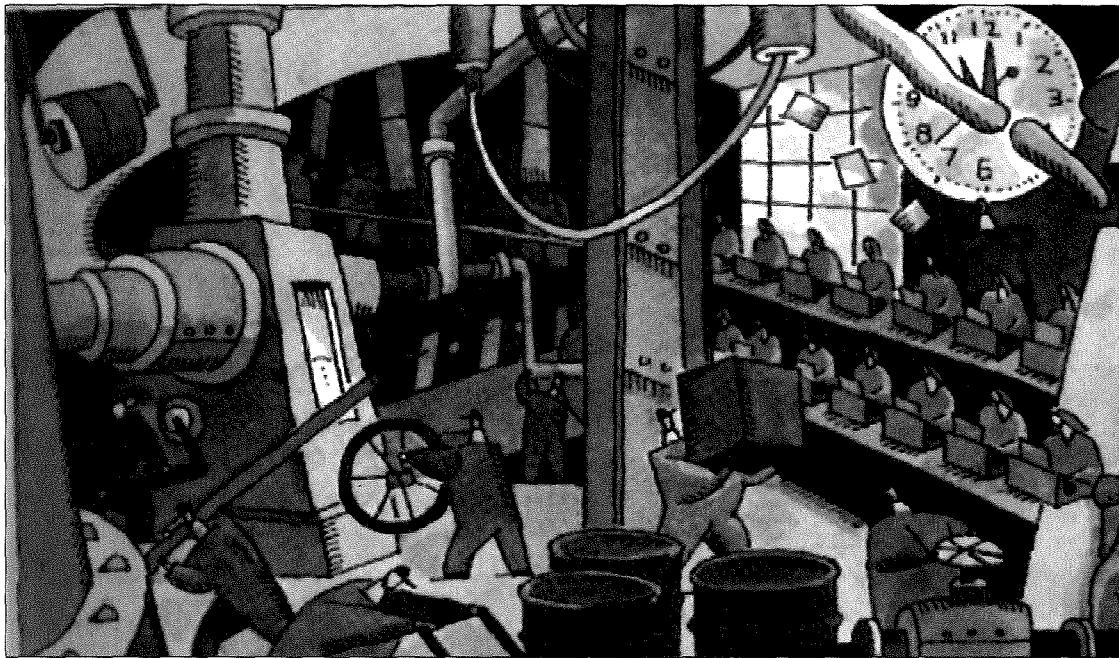
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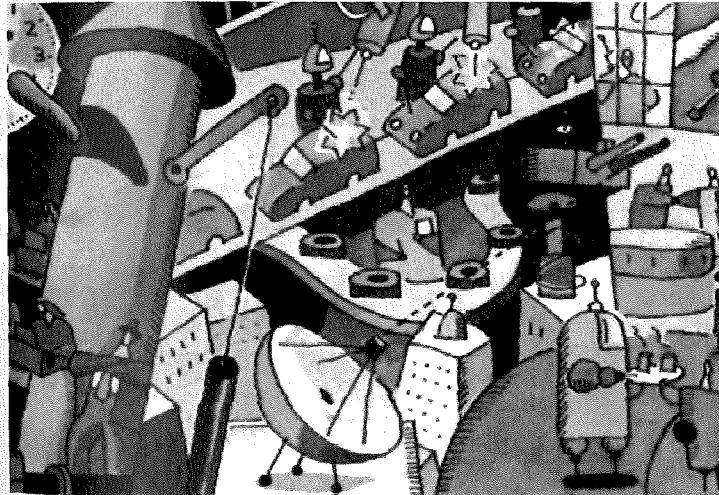
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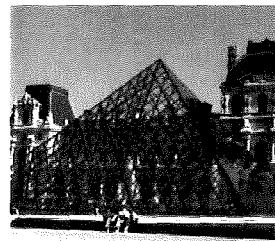
Elementos de un sistema de imágenes

Un digitalizador convierte una imagen en código de una representación numérica inteligible para un ordenador digital · Pág 7



Representación del mapa de luminancias de una imagen analógica y continua en otra digital y discreta.

Por lo general, los sistemas procesadores de imágenes, ya sean analógicos o digitales, son sistemas complejos y caros a causa de la dificultad inherente a los procesos de captura y representación. Toda imagen es la representación de un aspecto de la realidad, que debe ser capturada mediante sensores que transformen la información de ella contenida (intensidad lumínosa, color, temperatura o cualquier otro parámetro) en señales (eléctricas o no), que serán las posteriormente manipuladas. Esta etapa de captura, en un sistema digital, recibe el nombre de digitalización. Un digitalizador convierte una imagen en código de una representación numérica inteligible para un ordenador digital. En la actualidad, los digitalizadores más utilizados son los scanners, las cámaras de video y los CCD de estado sólido. Una vez que la imagen a sido capturada, la información que la representa se envía a un ordenador digital, donde se manipula de acuerdo con las necesidades del operador o del usuario. Las necesidades del procesado determinan la potencia del sistema a utilizar. En líneas generales, la potencia se mide en términos de velocidad (en instrucciones ejecutables por segundo) y de capacidad (tamaño máximo de las imágenes a manipular y almacenar). Por lo general las imágenes requieren (para su procesado) altas dosis, tanto de velocidad como de capacidad, lo que hace poco ha supuesto la restricción.

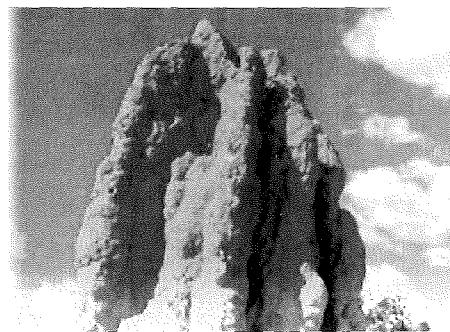


Introducción a las imágenes digitales. Percepción visual : El concepto de imagen

La percepción del mundo exterior se realiza por medio de los órganos de los sentidos

Entender las bases del proceso de percepción visual humana es un paso fundamental a la hora de conocer y manejar con soltura los parámetros básicos que se utilizarán para describir una imagen. Si bien no se pretende analizar el fenómeno fisiológico, si se deben cubrir los puntos básicos que afectan a la comprensión de ese conjunto de parámetros, al que nos referiremos constantemente a lo largo de todo el texto.

El ojo en general, y el ojo humano entre ellos, es el sistema óptico más complejo y perfecto conocido hasta el momento, y al cual todo el sistema artificial tiende a emular. El ojo humano viene a ser un globo quasi-esférico



recubierto exteriormente por la córnea y la esclerótica, e interiormente por la coroides y la retina. El coroides termina en el cuerpo ciliar y en el iris, que funciona a modo de diafragma limitando la cantidad de luz que entra en el globo ocular a través del orificio central que deja libre, llamado pupila.

Por detrás del iris queda el cuerpo lenticular compuesto de agua, grasas y proteínas que, funcionando a modo de lente convergente (modificable gracias a la tensión de las fibras ciliares), enfoca la luz procedente del exterior sobre la retina, en la parte posterior del globo (en realidad, la córnea presenta su primer efecto de convergencia a la radiación, actuando como una superficie óptica activa).

En la retina coexisten dos tipos de receptores: los conos y los bastones. Los primeros, en cantidades que rondan los seis o siete millones por globo ocular, son sensibles a la longitud de onda de la luz que les llega, esto es al color. Los bastones en un número mucho mayor.

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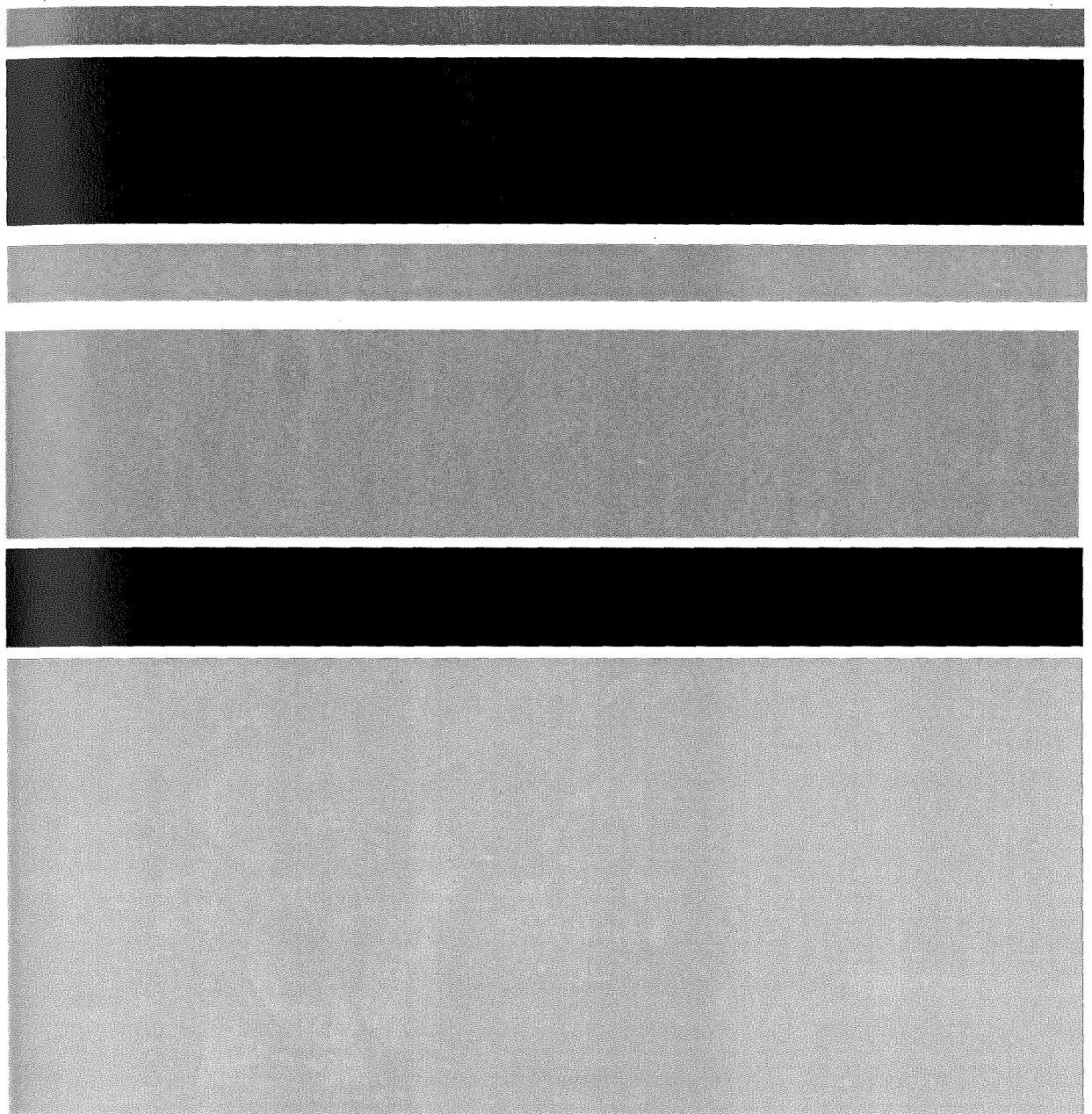
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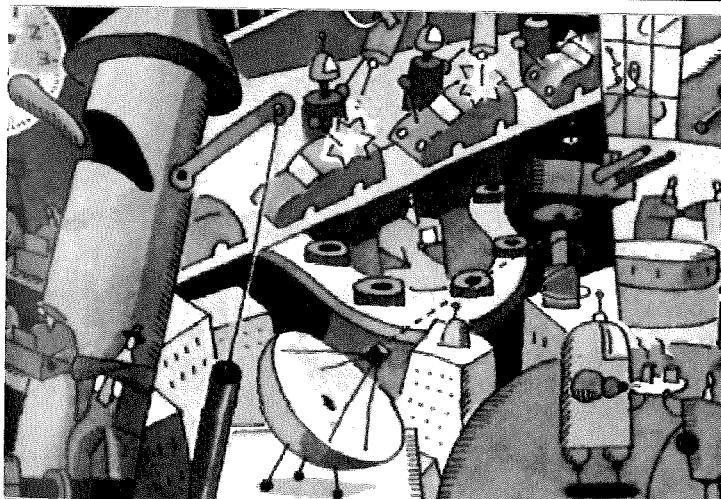
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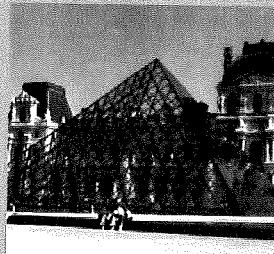
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